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(54) 【発明の名称】 嗅覚及びフェロモンのGタンパク質共役型受容体

(57) 【要約】

本発明は配列番号2の配列に規定されるアミノ酸配列を有する嗅覚又はフェロモンGタンパク質共役型受容体に関する。

【特許請求の範囲】

【請求項 1】

配列番号 1 と 95 % の配列同一性を示すアミノ酸配列を有するフェロモン G タンパク質共役型受容体。

【請求項 2】

配列番号 1 のアミノ酸配列又はその特異的活性部分を有する G タンパク質共役型受容体。

【請求項 3】

請求項 1 又は 2 に記載の G タンパク質共役型受容体のアミノ酸配列をコードするポリヌクレオチド。

【請求項 4】

請求項 1 ～ 3 のいずれか一項に記載の受容体又はポリヌクレオチドのアゴニスト、アンタゴニスト又は阻害剤。

【請求項 5】

請求項 3 に記載のポリヌクレオチドを含むベクター。

【請求項 6】

請求項 5 に記載のベクターによって形質転換された細胞。

【請求項 7】

請求項 1 又は 2 に記載の受容体をコードする請求項 3 に記載のポリヌクレオチドの部分的欠失又は完全な欠失を含む非ヒト哺乳動物、好ましくは前記ポリヌクレオチドの相同組換え「ノックアウト」を含む非ヒト哺乳動物、又は前記ポリヌクレオチドを天然レベルより多く過剰発現するトランスジェニック非ヒト哺乳動物。

【請求項 8】

請求項 1 ～ 3 のいずれか一項に記載の受容体又はポリヌクレオチドのアゴニスト、アンタゴニスト及び阻害剤からなる群から選択される化合物。

【請求項 9】

以下のステップを含む、請求項 1 又は 2 に記載の受容体に対する天然の化合物のアゴニスト、アンタゴニスト又は阻害剤であることが知られているか又は知られていない化合物をスクリーニング（検出及び所望により回収）する方法：

- ー 細胞、又は請求項 5 に記載のベクターによってトランスフェクトされた細胞からの細胞抽出物を接触させ、
- ー 所望により機能的応答の活性化により、前記受容体への天然の化合物の結合を許容する条件下で前記受容体に結合する前記天然の化合物を用いて細胞抽出物又は完全な細胞から膜画分を所望により単離し、及び
- ー バイオアッセイにより、好ましくは受容体に対する天然の既知の化合物のアゴニスト、アンタゴニスト又は阻害剤として作用する他の分子（又は化合物）の存在下での第二メッセンジャーの生産の改変、又は受容体活性の増加により、かかる化合物の存在を検出し、それによって前記分子（又は他の化合物）を回収して前記分子（又は他の化合物）がその受容体に対する天然の化合物のアゴニスト、アンタゴニスト又は阻害剤として作用することができるかどうかを決定する。

【請求項 10】

請求項 9 に記載のスクリーニング方法によって同定された化合物。

【請求項 11】

適切な医薬担体、及び請求項 1 又は 2 に記載の受容体、請求項 3 に記載の前記受容体をコードするポリヌクレオチド、請求項 4 に記載のアゴニスト、アンタゴニスト又は阻害剤、又は請求項 5 に記載のベクター、又は請求項 6 に記載の細胞の十分な量を含む医薬組成物。

【請求項 12】

食品及び／又は化粧品の（又は食品及び／又は化粧品中の）存在する味及び／又は香気を改良、削除又は置換するための、請求項 4 に記載のアゴニスト、アンタゴニスト又は阻害剤、又は請求項 10 に記載の化合物の使用法。

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【請求項 13】

細胞移行、不妊症、不安、精神分裂病、躁鬱病、鬱病を含む精神病及び神経病の如きヒトを含む哺乳動物を冒す病気の治療及び／又は予防における薬剤の製造のための、軸策成長、神経細胞連結及び神経再生を促進するための、雄及び雌の内分泌機能、ホルモン生産及び月経サイクルの調節のための、食欲の刺激又は抑制、性欲及び性的魅力の刺激又は抑制、攻撃性の刺激又は抑制の如きいくつかの哺乳動物（ヒトを含む）の行動の刺激による治療又は予防のための、及び生物間の化学的連絡の促進又は抑制のための、請求項 4 に記載のアゴニスト、アンタゴニスト又は阻害剤、又は請求項 10 に記載の化合物の使用方法。

【発明の詳細な説明】

【0001】

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発明の分野

本発明は嗅覚リガンド（臭気物質又は前記受容体と相互作用することができるいかなる他の分子）のファミリーの新規に同定され、単離され精製されたメンバー、及びフェロモンリガンド G タンパク質共役型（好ましくはヒトの）受容体のファミリー並びに前記受容体により実行することができる様々な使用方法に関する。

【0002】

本発明は前記（好ましくはヒトの）受容体をコードするポリヌクレオチド配列にも関する。

【0003】

本発明は受容体が媒介する病気において診断及び治療に適用可能な受容体ポリペプチド及びポリヌクレオチドを用いた方法にも関する。 20

【0004】

本発明は改良された香気又は香料として用いられるアゴニスト及びアンタゴニストを同定するための、並びに様々な病気の予防及び／又は治療のための受容体ポリペプチド及びポリヌクレオチドを用いたリガンドスクリーニング方法にも関する。

【0005】

本発明は前記嗅覚及びフェロモン受容体ポリペプチド及びポリヌクレオチドに基づいたアゴニスト及びアンタゴニスト、及び前記受容体ポリペプチドを含むバイオセンサーをも包含する。

【0006】

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本発明は本発明による受容体ポリペプチド及びポリヌクレオチドを生産する手順にも関し、好ましくはそれは遺伝子組換え方法によって行われる。

【0007】

発明の背景

G タンパク質共役型受容体（GPCRs）は細胞内の信号伝達を担うタンパク質である。GPCRs は通常 7 つの膜貫通ドメインを有する。リガンドが細胞外部分又は GPCR の断片に結合すると、信号が細胞内を伝達され、その結果、細胞の生物学的又は生理学的特性又は挙動が変化する。GPCRs は G タンパク質及びエフェクター（G タンパク質によって調節される細胞内酵素及び膜チャンネル）と共に細胞内第二メッセンジャーの状況を細胞外入力に連結するモジュラー信号システムの構成要素である。 40

【0008】

GPCR 遺伝子及び遺伝子生産物は病気の潜在的原因であり、これらの受容体は中央神経系及び末梢生理学的過程の両方に対して決定的に重要であるように見える。

【0009】

GPCR タンパク質スーパーファミリーは五つのファミリーによって表される：ファミリー I はロドプシンによって類型化される受容体及びベータ 2 - アドレナリン作用受容体であり、200 以上の特異的なメンバーによって現在表されている；ファミリー II はパラチロイドホルモン／カルシトニン／セクレチン受容体ファミリーである；ファミリー III は向代謝性グルタメート受容体ファミリーである；ファミリー IV は C A M P 受容体ファミリーであり、ディー・ディスコイデウム（D. discoideum）の走化性及び 50

発達において重要である；ファミリーVはSTE2の如き真菌の交配フェロモン受容体である。

【0010】

Gタンパク質はグアニンヌクレオシドに結合する α 、 β 及び γ サブユニットからなるヘテロ三量体タンパク質のファミリーを表す。これらのタンパク質は細胞表面受容体（七つの膜貫通ドメインを含む受容体）に通常結合されている。

【0011】

GPCRへのリガンドの結合に続き、構造変化がGタンパク質に伝達され、これは α サブユニットが結合GDP分子をGTP分子と交換して $\beta\gamma$ サブユニットから解離することを引き起こす。

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【0012】

α 、 β 及び γ サブユニットのGTP結合形態はエフェクター調節成分として通常機能し、cAMP（例えばアデニルサイ클ラーゼの活性化による）、ジアシルグリセロール又はイノシトールホスフェートの如き第二メッセンジャーの生産に導く。

【0013】

20以上の異なるタイプの α サブユニットがヒトにおいて知られている。これらのサブユニットは β 及び γ サブユニットの小さなプールと会合する。哺乳動物のGタンパク質の例はGi、Go、Gq、Gs及びGtを含む。Gタンパク質はLodish et al., Molecular Cell Biology, (Scientific American Books Inc., New York, N. Y., 1995)に詳しく記述されており、この内容は参照としてここに組み入れられる。

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【0014】

既知の及び未知のGPCRsは今や医薬作用及び開発の主要な標的を構成する。

【0015】

300以上のGPCRsが今までクローニングされており、1000以上のかかる受容体が存在すると一般的に推定されている。機構的には、全ての臨床的に関連する医薬の約50～60%が様々なGPCRsの機能を調節することによって作用する（Cuderman et al., J. Mol. Med., Vol. 73, p51-63, 1995）。

【0016】

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発明の概要

本発明は嗅覚（臭気物質／リガンド）及びフェロモン／リガンドの新規に単離され精製されて同定されたメンバー（配列番号1～配列番号548）及びGタンパク質共役型受容体に関し、並びに以下に記述する前記受容体をコードする組換え配列を含むポリヌクレオチド配列に関する。

【0017】

本発明は以下に記述する受容体に対応する配列に相同な記述されていないヌクレオチド及び／又はアミノ酸配列にも関する。

【0018】

相同配列は以下に記述する完全な配列と高い配列同一性（75%、80%、85%、90%又は95%より高い同一性を示す）を示す配列を意味する。

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【0019】

本発明の他の側面は前記配列の特異的活性部分又はこれらの配列の前記活性部分（リガンド結合）のライブラリーに関する。前記部分は完全なヌクレオチド又はアミノ酸配列の上の改変（規則的な突然変異）又は欠失を含む部分的な又は欠失された受容体であって前記受容体と相互作用することができる特異的リガンドの結合に必要な活性部位をなおも維持している受容体であることができる。

【0020】

本発明による配列の相同配列は他の動物（脊椎動物、好ましくは哺乳動物）又は特定のヒト集団中に存在するが同一の生化学的経路に関与する同様の受容体を含むことができる。

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【0021】

かかる相同配列は一以上のアミノ酸又はヌクレオチドの付加、欠失又は置換であって、迅速なリガンドスクリーニングに好適な他の膜貫通タンパク質と好ましくはハイブリッドポリペプチドを形成するために本発明による受容体の機能的特性を実質的に変更しない付加、欠失又は置換を含むことができる。

【0022】

従って、本発明は添付の配列表に示されたアミノ酸又はヌクレオチド配列（嗅覚ニューロン又は嗅覚上皮から由来する）と正確に同一のアミノ酸又はヌクレオチド配列を有する受容体及び対応するヌクレオチド配列、並びにこれらとは異なるが、本発明による受容体の基本的な定性的結合特性を保持している分子をも包含する。

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【0023】

本発明は以下に記述する完全なヌクレオチド及びアミノ酸配列によって特徴付けられる前記ヒト受容体、アゴニスト及びアンタゴニスト化合物又は阻害剤、好ましくは前記受容体に特異的に結合する抗体（即ち、他の天然に存在する抗体よりも前記受容体に対して少なくとも10倍大きい親和性を有する抗体）又はその特異的超可変部分及び特にかかるアミノ酸配列の医薬的に許容可能な調製物を前記受容体に指向された抗体を生産することができる動物に注入することを含むプロセスによって作られる抗体に関することが好ましい。

【0024】

例えば、本発明による受容体に対するモノクローナル抗体は前記受容体をコードするDNAを含む発現プラスミドを非ヒト哺乳動物に注入し、次いでマウスの脾臓細胞をミエロマ細胞と融合させることによって得られる。

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【0025】

本発明は本発明によるポリヌクレオチドにも関し、前記ポリヌクレオチドは所望により他の発現配列に結合されており、ベクター又はかかるベクター（プラスミド、アデノウイルスの如きウイルス、リポソーム、カチオン性ビークル．．．）によって形質転換されたホスト細胞に組み入れられている。

【0026】

本発明は当業者には周知の方法に従ってかかるホスト細胞によって生産される組換え体、好ましくは本発明による組換えヒト受容体にも関する。

【0027】

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本発明は本発明による受容体をコードする遺伝子配列の部分的又は完全な欠失を含むトランスジェニック非ヒト哺乳動物、好ましくは本発明によるヌクレオチド配列（ポリヌクレオチド）の相同組換え「ノックアウト」を含む非ヒト哺乳動物、又は前記ヌクレオチド配列（ポリヌクレオチド）を天然レベルより多く過剰発現するトランスジェニック非ヒト哺乳動物にも関する。

【0028】

前記トランスジェニック非ヒト哺乳動物は当業者には周知の方法によって、例えば胚性幹細胞の形質転換に基づく古典的な技術を用いる文献WO 98/20112に記述されている方法によって、好ましくはCarmeliet et al., Nature, Vol. 380, p. 435-439, 1996に記述されている方法に従って得ることができる。

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【0029】

好ましくは、本発明によるポリヌクレオチド又はその一部を過剰発現する前記トランスジェニック非ヒト哺乳動物はDNA構築物中に組み入れられた前記ポリヌクレオチド又はその活性部分をその過剰発現を可能にする誘導性プロモーター及び所望により組織及び他の特異的制御要素と共に含む。

【0030】

本発明の他の側面は以下のステップを含む、本発明による受容体に対する天然の化合物のアゴニスト、アンタゴニスト又は阻害剤であることが知られているか又は知られていない（臭気物質、フェロモン又はその阻害剤）化合物をスクリーニング（検出及び所望により

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回収)する方法に関する:

- ー 細胞、又は本発明による受容体をコードするポリヌクレオチド又はその活性部分を発現するベクターによってトランスフェクトされた細胞からの細胞抽出物を接触させ、
- ー 所望により機能的応答の活性化(検出可能な信号を生ずる)により、前記受容体への天然の化合物の結合を許容する条件下で前記受容体に結合する前記天然の化合物を用いて細胞抽出物又は完全な細胞から膜画分を所望により単離し、及び
- ー バイオアッセイにより、好ましくは本発明による受容体に対する天然の既知の化合物のアゴニスト、アンタゴニスト又は阻害剤として作用する他の分子(又は化合物)の存在下での第二メッセンジャーの生産の改変、又は受容体活性の増加により、かかる化合物の存在を検出し、それによって前記分子(又は他の化合物)を所望により回収して前記分子(又は他の化合物)がその受容体に対する天然の化合物のアゴニスト、アンタゴニスト又は阻害剤として作用することができるかどうかを決定する。好ましくは第二メッセンジャーアッセイは細胞内cAMP、細胞内イノシトールホスフェート、細胞内ジアシルグリセロール濃度、アラキノン酸濃度、MAPキナーゼ、又はチロシンキナーゼ経路又は細胞内カルシウム流動化の測定を含む。

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【0031】

本発明は前記スクリーニング(同定及び回収)方法によって同定された毒性であり得る分子を含む前記分子又は化合物、好ましくはフェロモン又は香料に関し、それらの製薬的な、化粧品としての及び産業的な(洗剤、石けん、シャンプー、香料、臭気物質の識別特徴、食欲抑制化合物などの製造)用途にも関する。

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【0032】

かかる分子又は化合物は哺乳動物においてその味の改変及び臭気物質、フェロモン又は香料に対するその生理学的反応の改変を得るためにも用いることができる。

【0033】

本発明は好適な担体中に本発明の方法によって同定された化合物又は分子を含む食欲を制御するための(好ましくは鼻用の)スプレーにも関する。

【0034】

かかる受容体の他の適用は本発明による受容体、細胞又は膜を用いることによる臭気のトラッピングであり、そこでは望ましい臭気リガンドが臭気物質受容体への臭気物質リガンドの結合により吸収される。

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【0035】

更に本発明は臭気をトラッピングするための前記方法を用いた臭気トラップに関する。

【0036】

好ましくは、本発明による受容体上の試験される臭気物質又はフェロモンは汗、唾液、尿、膺分泌物、精液などの様々な体分泌物から選択されることが有利である。受容体上の試験される臭気物質又はフェロモンは5 α -アンドロスト-16-エン-3 α -オール、5 α -アンドロスト-16-エン-3-オン、アンドロスタジエノン、以前に記述されているヒトフェロモン(Grosser et al., Psychoneuroendocrinology vol. 25, p. 289-299, 2000)及び他のアンドロステノール誘導体の如き16-アンドロステンファミリーの群; 1, 3, 5(10), 16-エストラテトラエン-3-オール及びPCT/US 92/00219, PCT/US 92/00220及びEP 0562843に記述されている他のエストラジオール誘導体の如きエストレンファミリーからなる群; ヒトフェロモンプレグナー4, 20-ジエン-3, 6-ジオン(Monti-Bloch et al., J. Steroid Biochem. Mol. Biol. Vol. 65, p. 237-242)及び他のプロゲステロン誘導体の如きプロゲステインファミリーからなる群; 仮想的なヒトの膺フェロモンコピュリンを構成する酢酸、プロピオン酸、酪酸、イソ吉草酸及びイソカプロン酸の如き及びヒトの汗中に見出されるトランス-3-メチル-2-ヘキサノイル酸の如き小さな脂肪酸、デヒドロ-エキソブレビコミンの如き及びネペタラクトンの如き既知の動物フェロモンの同族体である環式有機化合物、及びネズミのタンパク質アフロディシンのヒト同

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族体からなる群から選択されることが有利である。

【0037】

かかる化合物の他の例はコカイン、マリファナ、ヘロイン、ハシーシ、合成ヘロインの如き麻薬、ガソリン、天然ガス、アルコール、腐敗した人肉、爆発物、プラスチック爆弾、小火器、火薬、有毒煙霧、有害煙霧又は危険性煙霧などから発される蒸気中に存在する分子である。

【0038】

前記分子又は化合物は化学的連絡を促進又は抑制するためにも用いられることができる。生物又は化学化合物の外因性の源による放出に関与するすべての刺激は他の生物又は他の生物の一部の応答の見込みを改変することができる。

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【0039】

これらの分子又は化合物は例えば細胞移行、細胞死、細胞増殖、不安、精神分裂病、躁鬱病、鬱病又は筋膨隆変異 (mound modification) を含む精神病及び神経病である様々な病気の治療又は予防において用いられることができる。

【0040】

これらの分子又は化合物は避妊薬の改良のために、軸索成長、神経連絡及び神経再生を促進する治療のために、雄及び雌の内分泌機能を改変するために、又は月経サイクルに影響を与えるために用いられることができる。実際前記受容体のいくつかは精子の表面に存在することができ、避妊適用を見出されることができ、又は不妊症／受精能力の治療／予防において用いられることができる。これらの受容体は様々な嗅覚神経ニューロン中にも存在し、それらの連結、特に嗅球上又は前記嗅覚受容体を含む他の組織上でのそれらの連絡を改良することができる。

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【0041】

それらは食欲の刺激及び／又は抑制、性欲及び性的魅力の刺激及び／又は抑制、攻撃性の刺激及び／又は抑制、警告及び防御行動の刺激及び／又は抑制、テリトリー及び臭跡マーキングの刺激及び／又は抑制、社会的制御及び認識の刺激及び／又は抑制、母子認識の刺激及び／又は抑制などの如き様々な動物又はヒトの行動の治療又は予防のためにも用いられることができる。

【0042】

本発明によるスクリーニング方法は当業者には周知の方法によって行われることができ、既知の技術に従ってマイクロタイタープレート又はバイオチップの如き様々な固体支持体上で当業者によって行われる国際特許出願WO 00/02045に記述された方法に基づく高処理量スクリーニング、診断及び投薬装置によって行われることが好ましい。

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【0043】

本発明は前記方法によって特徴付けられ及び所望により回収される分子にも関し、これは前記分子の十分な量及び特定の病気の予防及び／又は治療における医薬の調製のための医薬的に許容可能な担体又は希釈剤を含む医薬組成物を含む。

【0044】

本発明の最後の側面は上述の特定化合物又は分子の検出のための本発明による受容体を含むバイオセンサー又はいかなる同様の技術装置に関する。

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(54) Title: OLFACTORY AND PHEROMONES G-PROTEIN COUPLED RECEPTORS

(57) Abstract: The present invention is related to an olfactory or pheromone G protein coupled receptor having an amino acid sequence which presents 95% sequence identity with the sequence SEQ ID NO. 1.

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OLFACTORY AND PHEROMONES G-PROTEIN COUPLED RECEPTORSField of the invention

10 [0001] The present invention is related to newly identified, isolated and purified members of the family of olfactory ligand (odorant or any other molecule able to interact with said receptor) and the family of pheromone ligand G-protein-coupled (preferably human) receptors as
15 well as to the various uses that can be made of said receptors.

[0002] The invention is also related to the polynucleotides sequences encoding said (preferably human) receptors.

20 [0003] The invention is further related to methods using receptor polypeptides and polynucleotides applicable to diagnostic and treatment in receptor-mediated disorders.

[0004] The invention is further related to ligand-screening methods using the receptor polypeptides and
25 polynucleotides, to identify agonists and antagonists used as improved flavours or perfumes, as well as the prevention and/or treatment of various disorders.

[0005] The invention further encompasses agonists and antagonists based on the said olfactory and pheromones
30 receptor polypeptides and polynucleotides and biosensors comprising said receptor polypeptides.

[0006] The invention is further related to procedures for producing the receptor polypeptides and

polynucleotides according to the invention, preferably by genetic recombinant methods.

Background of the invention

- 5 [0007] G-protein coupled receptors (GPCRs) are proteins responsible for transducing a signal within a cell. GPCRs have usually seven transmembrane domains. Upon binding of a ligand to an extra-cellular portion or fragment of a GPCR, a signal is transduced within the cell that results in a change in a biological or physiological property or behaviour of the cell. GPCRs, along with G-proteins and effectors (intracellular enzymes and membrane channels modulated by G-proteins), are the components of a modular signalling system that connects the state of intra-
- 10 cellular second messengers to extra-cellular inputs.
- [0008] GPCR genes and gene products are potential causative agents of disease and these receptors seem to be of critical importance to both the central nervous system and peripheral physiological processes.
- 20 [0009] The GPCR protein superfamily is represented in five families : Family I, receptors typified by rhodopsin and the beta2-adrenergic receptor and currently represented by over 200 unique members; Family II, the parathyroid hormone/calcitonin/secretin receptor family;
- 25 Family III, the metabotropic glutamate receptor family, Family IV, the CAMP receptor family, important in the chemotaxis and development of *D. discoideum*; and Family V, the fungal mating pheromone receptor such as STE2.
- [0010] G proteins represent a family of
- 30 heterotrimeric proteins composed of α , β and γ subunits, that bind guanine nucleotides. These proteins are usually linked to cell surface receptors (receptors containing seven transmembrane domains).

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[0011] Following ligand binding to the GPCR, a conformational change is transmitted to the G protein, which caused the α -subunit to exchange a bound GDP molecule for a GTP molecule and to dissociate from the $\beta\gamma$ -subunits.

5 [0012] The GTP-bound form of the α , β and γ -subunits typically functions as an effector-modulating moiety, leading to the production of second messengers, such as cAMP (e.g. by activation of adenylyl cyclase), diacylglycerol or inositol phosphates.

10 [0013] Greater than 20 different types of α -subunits are known in humans. These subunits associate with a small pool of β and γ subunits. Examples of mammalian G proteins include Gi, Go, Gq, Gs and Gt. G proteins are described extensively in Lodish et al., *Molecular Cell*
15 *Biology*, (Scientific American Books Inc., New York, N.Y., 1995), the contents of which are incorporated herein by reference.

[0014] Known and unknown GPCRs constitute now major targets for drug action and development.

20 [0015] More than 300 GPCRs have been cloned thus far and it is generally assumed that it exists well over 1000 such receptors. Mechanistically, approximately 50-60% of all clinically relevant drugs act by modulating the functions of various GPCRs (Cudermann et al., *J. Mol. Med.*,
25 Vol. 73, pages 51-63, 1995).

Summary of the invention

[0016] The present invention is related to newly isolated and purified identified members of olfactory
30 (odorant/ligand) and pheromones/ligands (SEQ ID NO. 1 to SEQ.ID NO. 548) and G-protein-coupled receptors as well as to polynucleotide sequences including recombinant sequences encoding said receptors, described hereafter.

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[0017] The present invention is also related to non-described nucleotide and/or amino acid sequences homologous to the sequences corresponding to the receptors described hereafter.

5 [0018] Homologous sequences mean sequences which present a high sequence identity (which present an identity higher than 75%, 80%, 85%, 90% or 95%) with the complete sequence described hereafter.

[0019] Another aspect of the present invention is
10 related to a specific active portion of said sequences or a libraries of said active portion (ligand binding) of these sequences. Said portions could be partial or deleted receptors which comprise modifications (punctual mutations) or deletions upon the complete nucleotide or amino acid
15 sequences and which still maintain the active site(s) necessary for the binding of a specific ligand able to interact with said receptors.

[0020] Homologous sequences of the sequences according to the invention may comprise similar receptors
20 which exist in other animal (vertebrates, preferably mammalian) or specific human populations, but which are involved in the same biochemical pathway.

[0021] Such homologous sequences may comprise addition, deletion or substitution of one or more amino
25 acids or nucleotides, which does not substantially alter the functional characteristics of the receptor(s) according to the invention in order to form preferably an hybrid polypeptide with another transmembrane protein, suitable for rapid ligand screening.

30 [0022] Thus, the invention encompasses also a receptor and corresponding nucleotide sequence having exactly the same amino acid or nucleotide sequences (derived from olfactory neurons or olfactory epithelium) as shown in the enclosed sequence listing, as well as

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molecules which differ, but which are not retaining the basic qualitative binding properties of the receptors according to the invention.

[0023] The invention is preferably related to said human receptors characterised by the complete nucleotide and amino acid sequences described hereafter, agonist and antagonist compounds or inhibitors, preferably antibodies or specific hypervariable portions thereof that bind specifically to said receptors (i.e. that have at least a 10 fold greater affinity for said receptors than any other naturally occurring antibody) and specifically antibodies made by a process involving the injection of a pharmaceutically acceptable preparation of such amino acid sequence into a animal capable of producing antibodies directed against said receptor.

[0024] For instance, a monoclonal antibody to the receptor according to the invention is obtained by injecting of an expression plasmid comprising the DNA encoding said receptor into a non human mammal and than fusing mouse spleen cells with myeloma cells.

[0025] The present invention is also related to the polynucleotide according to the invention, possibly linked to other expression sequences and incorporated into a vector and host cells transformed by such vector (plasmid, virus such as an adenovirus, liposomes, cationic vesicles,...).

[0026] The present invention is also related to the recombinant, preferably human receptor according to the invention, produced by such host cells according to the method well known by the person skilled in the art.

[0027] The present invention is also related to a transgenic non human mammal comprising a partial or total deletion of the genetic sequences encoding the receptor according to the invention, preferably a non human mammal

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comprising an homologous recombination "knock-out" of the nucleotide sequences (polynucleotides) according to the invention or a transgenic non human mammal overexpressing above natural level said nucleotide sequences (polynucleotides).

[0028] Said transgenic non human mammal can be obtained by methods well known by the person skilled in the art, for instance by the one described in the document WO98/20112 using classical techniques based upon the transfection of embryonic stem cells, preferably according to the method described by Carmeliet et al., *Nature*, Vol. 380, p. 435-439, 1996.

[0029] Preferably, said transgenic non human mammal overexpressing the polynucleotides according to the invention or portions thereof comprises said polynucleotides or active portions thereof incorporated in a DNA construct with an inducible promoter allowing its overexpression and possibly tissues and other specific regulatory elements.

[0030] Another aspect of the present invention is related to a method for the screening (detection and possibly recovering) of (odorant, pheromones or inhibitor thereof) compounds which are known or not known to be agonists, antagonists or inhibitors of natural compounds to the receptor according to the invention, said method comprising :

- contacting a cell or cell extract from the cell transfected with a vector expressing the polynucleotides encoding the receptor(s) according to the invention or active portion(s) thereof,
- possibly isolating a membrane fraction from the cell extract or the complete cell with a natural compound binding to said receptor under conditions permitting binding of said compound to said receptor, possibly by

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the activation of a functional response (resulting in a detectable signal) and

- detecting the presence of any such compound by means of a bioassay, preferably a modification in the production of a second messenger or an increase in the receptor activity in the presence of another molecule (or compound) working as an agonist, antagonist or inhibitor of a natural known compound to the receptor according to the invention and thereby possibly recovering and determining whether said molecule (or other compound) is able to work as an agonist, antagonist or inhibitor of the natural compound to its receptor, preferably the second messenger assay comprises the measurement of intra-cellular cAMP, intracellular inositol phosphates, intra-cellular diacylglycerol concentration, arachinoid acid concentration, MAP kinase(s) or tyrosine kinase(s) pathways or intra-cellular calcium mobilisation.

[0031] The present invention is related to said molecules or compounds, preferably pheromones or flavours, including possible toxic molecules identified by said screening (identification and recovering) method and to their pharmaceutical, cosmetical and industrial (production of detergents, soap, shampoo, fragrances, odorant fingerprints, appetite suppressant compounds, etc.) use.

[0032] Such molecules or compounds may be used also for obtaining in mammal a modification of its taste and its physiological reactions to odorant, pheromones or flavours.

[0033] The present invention is also related to a (preferably nasal) spray for controlling appetite comprising the identified compounds or molecules by the method according to the invention in a suitable carrier.

[0034] Another application of such receptor is the trapping of odour by using the receptor, the cell or membrane according to the invention wherein the desired

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odour ligand is absorbed by the binding of the odorant ligand to the odorant receptor.

[0035] The present invention is further related to an odour trap, using said method for trapping odour.

5 [0035] Preferably, the tested odorants or pheromones upon the receptor according to the invention are advantageously selected from different body secretions such as sweat, salivary, urine, vaginal secretions, sperm, etc. The tested odorants or pheromones upon the receptor are
 10 also advantageously selected from the group of 16-androstene family, such as the 5 α -androst-16-en-3 α -ol, the 5 α -androst-16-en-3-one, androstadienone, a human pheromone described previously (Grosser et al.,
Psychoneuroendocrinology vol. 25, pages 289-299, 2000) and
 15 other androstene derivatives; the group consisting of estrane family, such as 1,3,5(10),16-estratetraen-3-ol and other estradiol derivatives described in PCT/US92/00219, PCT/US92/00220 and EP0562843 ; the group consisting of progestin family such as the human pheromone pregna-4,20-
 20 diene-3,6-dione (Monti-Bloch et al., *J. Steroid Biochem. Mol. Biol.* Vol. 65, pages 237-242) and other progesterone derivatives ; the group consisting of small fatty acids such as acetic acid, propionic acid, butyric acid, isovaleric acid and isocaproic acid that compose the
 25 putative human vaginal pheromone copulin and such as the trans-3-methyl-2-hexanoic acid found in human sweat, cyclic organic compounds homologs to known animal pheromone such as dehydro-exo-brevicomin and such as nepetalactone, and human homologs of the murin protein aphrodisin.

30 [0037] Other examples of such compounds are molecules present in vapour emanating from narcotics, like cocaine, marihuana, heroin, hashish, angel dust, gasoline, natural gas, alcohol, decayed human flesh, explosives,

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plastic explosives, fire arms, gun powder, toxic fumes, noxious fumes or dangerous fumes, etc.

[0038] Said molecules or compounds could be used also for promoting or suppressing chemical communication.

- 5 Every stimuli involving the emission by an organism or an exogenous source of chemical compounds able to modify the probability of response of another organism or a part of another organism.

- [0039] These molecules or compounds could be used in
10 the treatment or prevention of various disorders affecting, for instance, cell migration, cell death, cell growth, psychotic and neurological disorders, including anxiety, schizophrenia, maniac depression, depression or wound modification, etc.

- 15 [0040] These molecules or compounds could be used also for improving contraceptive medication, treatment promoting axonal growth, neural connection and nerves regeneration, in modulating male and female endocrine functions, or may effect the menstrual cycle. Indeed, it is
20 known that several of said receptors can be present at the surface of spermatozooids and can then find contraceptive application or could be used in the treatment/prevention of sterility/fertility. these receptors are also present in various neuroolfactory neurons and can improve their
25 connection, especially upon the olfactory bulb or upon other tissue comprising said olfactory receptors.

- [0041] They could be also used for the treatment or the prevention of various animal or human behaviours, such as stimulation and/or suppression of appetite,
30 stimulation and/or suppression of motivation and sexual attraction, stimulation and/or suppression of aggressivity, stimulation and/or suppression of alarm and defence behaviours, stimulation and/or suppression of territory and

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trail-marking, stimulation and/or suppression of social regulation and recognition, stimulation and/or suppression of mother-child recognition, etc.

[0042] The screening method according to the invention could be performed by well known methods to the person skilled in the art, preferably high-throughput screening, diagnostic and dosage devices based upon the method described in the International patent application WO00/02045 performed upon various solid supports such as micro-titer plates or biochips according to known techniques by the person skilled in the art.

[0043] The present invention is also related to the molecules characterized and possibly recovered by said method, including the pharmaceutical composition comprising a sufficient amount of said molecules and a pharmaceutically acceptable carrier or diluent for the preparation of a medicament in the prevention and/or the treatment of specific diseases.

[0044] A last aspect of the present invention is related to a biosensor or any technical device comprising the receptors according to the invention for the detection of the specific above-mentioned compounds or molecules.

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CLAIMS

1. Pheromone G-protein coupled receptor having an amino acid sequence which presents 95% sequence identity with the SEQ ID NO. 1.
- 5 2. G-protein coupled receptor having the amino acid sequence SEQ ID NO. 1 or a specific active portion thereof.
3. Polynucleotide encoding any of the amino acid sequences of the G-protein coupled receptor according
10 to claim 1 or 2.
4. Agonist, antagonist or inhibitor of the receptor or the polynucleotide according to any of the preceding claims.
5. Vector comprising the polynucleotide
15 according to the claim 3.
6. Cell transformed by the vector according to the claim 5.
7. Non-human mammal comprising a partial or total deletion of the polynucleotide according to the
20 claim 3 encoding the receptor according claim 1 or 2, preferably a non-human mammal comprising an homologous recombination "knock-out" of said polynucleotide or a transgenic non-human mammal overexpressing above natural level said polynucleotide.
- 25 8. Compound selected from the group consisting of agonist, antagonist or inhibitor of the receptor or the polynucleotide according to any of the claims 1 to 3.
9. Method for the screening (detection and
30 possibly recovering) of compounds which are known or not known to be agonists, antagonists or inhibitors of natural compounds to the receptor according to claim 1 or 6, said method comprising :

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- contacting a cell or cell extract from the cell transfected with a vector according to the claim 5,
- possibly isolating a membrane fraction from the cell extract or the complete cell with a natural compound
- 5 binding to said receptor under conditions permitting binding of said compound to said receptor, possibly by the activation of a functional response, and
- detecting the presence of any such compound by means of a bioassay, preferably a modification in the production
- 10 of a second messenger or an increase in the receptor activity in the presence of another molecule (or compound) working as an agonist, antagonist or inhibitor of a natural known compound to the receptor and thereby recovering and determining whether said molecule (or
- 15 other compound) is able to work as an agonist, antagonist or inhibitor of the natural compound to its receptor.

10. Compound identified by the screening method according to the claim 9.

- 20 11. Pharmaceutical composition comprising an adequate pharmaceutical carrier and a sufficient amount of the receptor according to claim 1 or 2, the poly-nucleotide encoding said receptor according to the claim 3, the agonists, antagonists or inhibitors according to the claim
- 25 4 or the vectors according to the claim 5 or the cell according to the claim 6.

12. Use of the agonists, antagonists or inhibitors according to the claim 4 or the compound according to the claim 10 for the improvement, elimination
- 30 or substitution of an existing taste and/or a fragrance of (or in) food and/or cosmetrical products.

13. Use of the agonists, antagonists or inhibitors according to the claim 4 or the compound according to the claim 10 for the preparation of a

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medicament in the treatment and/or the prevention of a disorder affecting a mammal, including a human, such as disorders in cell migration, sterility, psychotic and neurological disorders, including anxiety, schizophrenia, 5 maniac depression, depression, for promoting axonal growth, nerve cell connection and nerve regeneration, for modulating male and female endocrine functions, hormone production and menstrual cycle, for the prevention or the treatment by stimulation of several mammal (including 10 human) behaviours, such as stimulation or suppression of appetite, stimulation or suppression of sexual motivation and sexual attraction, stimulation or suppression of aggressivity and for promoting or suppressing chemical communication between organisms.

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SEQUENCE LISTING

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 Arg His Leu Thr Val Ala Asp Ser Leu Val Ile Leu Ser Lys Arg Ile
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cca gag acc atg gca act ttt ggg ttg aaa cat ttt gac aat tat ttt Pro Glu Thr Met Ala Thr Phe Gly Leu Lys His Phe Asp Asn Tyr Phe 145 150 155 160	480
gga tgc aaa ttt ctt ttg tat gca cac agg gta ggc agg ggt gtg tcc Gly Cys Lys Phe Leu Leu Tyr Ala His Arg Val Gly Arg Gly Val Ser 165 170 175	528
att gga agc acc tgc ctc ttg agt gtc ttc cag gtg atc acc atc aac Ile Gly Ser Thr Cys Leu Leu Ser Val Phe Gln Val Ile Thr Ile Asn 180 185 190	576
cct agg aac tcc agg tgg gca gag atg aaa gta aaa gcc ccg aca tac Pro Arg Asn Ser Arg Trp Ala Glu Met Lys Val Lys Ala Pro Thr Tyr 195 200 205	624
att ggt ctc tcc aat atc ctg tgc tgg gcc ttc cac atg ctg gta aat Ile Gly Leu Ser Asn Ile Leu Cys Trp Ala Phe His Met Leu Val Asn 210 215 220	672
gcc att ttt cct att tat aca act ggc aaa tgg agc aac aac aac atc Ala Ile Phe Pro Ile Tyr Thr Thr Gly Lys Trp Ser Asn Asn Asn Ile 225 230 235 240	720
aca aag aaa gga gat ttg gga tat tgt tct gcc coa ctt agt gat gaa Thr Lys Lys Gly Asp Leu Gly Tyr Cys Ser Ala Pro Leu Ser Asp Glu 245 250 255	768
gtc aca aag tca gta tat gca gca ttg aca tcc ttc cat gat gtt ttg Val Thr Lys Ser Val Tyr Ala Ala Leu Thr Ser Phe His Asp Val Leu 260 265 270	816
tgt ctg ggg ctc atg ctc tgg gcc agc agc tcc atc gtt ttg gtc ttg Cys Leu Gly Leu Met Leu Trp Ala Ser Ser Ser Ile Val Leu Val Leu 275 280 285	864
tac agg cac aaa cag cag gta caa cac atc tgt agg aac aat ctc tac Tyr Arg His Lys Gln Gln Val Gln His Ile Cys Arg Asn Asn Leu Tyr 290 295 300	912
ccc aac tot tct cct ggg aac aga gcc atc oaa agc atc ctt gca ttg Pro Asn Ser Ser Pro Gly Asn Arg Ala Ile Gln Ser Ile Leu Ala Leu 305 310 315 320	960
gtg agc acc ttt gca tta tgt tac gcc ctt tcc ttc atc acc tac gtt Val Ser Thr Phe Ala Leu Cys Tyr Ala Leu Ser Phe Ile Thr Tyr Val 325 330 335	1008
tat tta gct ctc ttc gat aat tcc agt tgg tgg cta gtg aac act gct Tyr Leu Ala Leu Phe Asp Asn Ser Ser Trp Trp Leu Val Asn Thr Ala 340 345 350	1056
gca cta atc att gcc tgt ttt cca act att agc cct ttt gtt ctc atg Ala Leu ile ile Ala Cys Phe Pro Thr Ile Ser Pro Phe Val Leu Met 355 360 365	1104
tgc cgt gac ccc agc aga tcc agg ctc tgc agt atc tgc tgc aga aga Cys Arg Asp Pro Ser Arg Ser Arg Leu Cys Ser Ile Cys Cys Arg Arg 370 375 380	1152
aat aga cga ttc ttt cat gat ttc agg aaa atg tga	1188

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Asn Arg Arg Phe Phe His Asp Phe Arg Lys Met
385                390                395

<210> 2
<211> 395
<212> PRT
<213> Homo Sapiens

<400> 2
Met Thr His Thr Leu Tyr Pro Thr Pro Phe Ala Leu Tyr Pro Ile Asn
1      5      10      15

Ile Ser Ala Ala Trp His Leu Gly Pro Leu Pro Val Ser Cys Phe Val
20      25      30

Ser Asn Lys Tyr Gln Arg Ser Leu Ala Phe Gly Ala Thr Thr Gly Leu
35      40      45

Arg Val Leu Val Val Val Val Pro Gln Thr Gln Leu Ser Phe Leu Ser
50      55      60

Ser Leu Cys Leu Val Ser Leu Phe Leu His Ser Leu Val Ser Ala His
65      70      75      80

Gly Glu Lys Pro Thr Lys Pro Val Gly Leu Asp Pro Thr Leu Phe Gln
85      90      95

Val Val Val Gly Ile Leu Gly Asn Phe Ser Leu Leu Tyr Tyr Tyr Met
100     105     110

Phe Leu Tyr Phe Arg Gly Tyr Lys Pro Arg Ser Thr Asp Leu Ile Leu
115     120     125

Arg His Leu Thr Val Ala Asp Ser Leu Val Ile Leu Ser Lys Arg Ile
130     135     140

Pro Glu Thr Met Ala Thr Phe Gly Leu Lys His Phe Asp Asn Tyr Phe
145     150     155     160

Gly Cys Lys Phe Leu Leu Tyr Ala His Arg Val Gly Arg Gly Val Ser
165     170     175

Ile Gly Ser Thr Cys Leu Leu Ser Val Phe Gln Val Ile Thr Ile Asn
180     185     190

Pro Arg Asn Ser Arg Trp Ala Glu Met Lys Val Lys Ala Pro Thr Tyr
195     200     205

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Ile Gly Leu Ser Asn Ile Leu Cys Trp Ala Phe His Met Leu Val Asn
210                215                220

Ala Ile Phe Pro Ile Tyr Thr Thr Gly Lys Trp Ser Asn Asn Asn Ile
225                230                235                240

Thr Lys Lys Gly Asp Leu Gly Tyr Cys Ser Ala Pro Leu Ser Asp Glu
245                250                255

Val Thr Lys Ser Val Tyr Ala Ala Leu Thr Ser Phe His Asp Val Leu
260                265                270

Cys Leu Gly Leu Met Leu Trp Ala Ser Ser Ser Ile Val Leu Val Leu
275                280                285

Tyr Arg His Lys Gln Gln Val Gln His Ile Cys Arg Asn Asn Leu Tyr
290                295                300

Pro Asn Ser Ser Pro Gly Asn Arg Ala Ile Gln Ser Ile Leu Ala Leu
305                310                315                320

Val Ser Thr Phe Ala Leu Cys Tyr Ala Leu Ser Phe Ile Thr Tyr Val
325                330                335

Tyr Leu Ala Leu Phe Asp Asn Ser Ser Trp Trp Leu Val Asn Thr Ala
340                345                350

Ala Leu Ile Ile Ala Cys Phe Pro Thr Ile Ser Pro Phe Val Leu Met
355                360                365

Cys Arg Asp Pro Ser Arg Ser Arg Leu Cys Ser Ile Cys Cys Arg Arg
370                375                380

Asn Arg Arg Phe Phe His Asp Phe Arg Lys Met
385                390                395

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<210> 3
<211> 1074
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(1071)
<223>

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<400> 3
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Met Leu Lys Leu Val Ile Ile Glu Asn Met Ala Glu Ile Met Leu Phe
1 5 10 15

tca tta gat ctc ttg ett ttc tcc aca gat atc ott tgc ttt aat ttt 96
Ser Leu Asp Leu Leu Leu Phe Ser Thr Asp Ile Leu Cys Phe Asn Phe
20 25 30

cct tot aag atg atc aaa ott cct ggt ttt att acc ata caa atc ttc 144
Pro Ser Lys Met Ile Lys Leu Pro Gly Phe Ile Thr Ile Gln Ile Phe
35 40 45

ttt tat cca caa gcc agc ttt gga att tca gca aac acc atc ott ctt 192
Phe Tyr Pro Gln Ala Ser Phe Gly Ile Ser Ala Asn Thr Ile Leu Leu
50 55 60

ett tac cac atc ttc acc ttt gtt ttc agt cac agg tot aag tcc att 240
Leu Tyr His Ile Phe Thr Phe Val Phe Ser His Arg Ser Lys Ser Ile
65 70 75 80

gac atg ata att agt cac ctg tct ctc atc cac ata ctg ctg ctc ttc 288
Asp Met Ile Ile Ser His Leu Ser Leu Ile His Ile Leu Leu Phe
85 90 95

act cag gca ata ttg gtg tcc tta gac ttc ttt ggt tca cag aat act 336
Thr Gln Ala Ile Leu Val Ser Leu Asp Phe Phe Gly Ser Gln Asn Thr
100 105 110

cag gat gat ctt agg tat aag gtc att gtc ttt tta aac aag gtg atg 384
Gln Asp Asp Leu Arg Tyr Lys Val Ile Val Phe Leu Asn Lys Val Met
115 120 125

agg ggc ctc tcc atc tgc acc ccc tgc ctc ctg agt gtg ctc cag gcc 432
Arg Gly Leu Ser Ile Cys Thr Pro Cys Leu Leu Ser Val Leu Gln Ala
130 135 140

atc atc agc ccc agc atc ttc tcc ttg gca aag ctc aaa cat cct tct 480
Ile Ile Ser Pro Ser Ile Phe Ser Leu Ala Lys Leu Lys His Pro Ser
145 150 155 160

gca agt cac atc tta gga ttc ttc ctt ttc tca tgg gtc ctc aac atg 528
Ala Ser His Ile Leu Gly Phe Phe Leu Phe Ser Trp Val Leu Asn Met
165 170 175

ttc att ggt gta atc ttc tgc tgt aca ctg cgg cta ccc cca gtg aaa 576
Phe Ile Gly Val Ile Phe Cys Cys Thr Leu Arg Leu Pro Pro Val Lys
180 185 190

cgg ggc cag tct tct gtt tgt cat aca gca ctg ttc ott ttt gcc cat 624
Arg Gly Gln Ser Ser Val Cys His Thr Ala Leu Phe Leu Phe Ala His
195 200 205

gag cta cac cca cag gag act gtt ttt cac act aat gac ttt gag gga 672
Glu Leu His Pro Gln Glu Thr Val Phe His Thr Asn Asp Phe Glu Gly
210 215 220

tgt cac ott tat agg gtt cat ggt cct ctc aag agg cta cat ggt gat 720
Cys His Leu Tyr Arg Val His Gly Pro Leu Lys Arg Leu His Gly Asp
225 230 235 240

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tat ttt ata cag acg ata aga ggc tat ctg agt gcc ttc acg cag cca      768
Tyr Phe Ile Gln Thr Ile Arg Gly Tyr Leu Ser Ala Phe Thr Gln Pro
245                                250                                255

gcc tgt ccc cga gtc tca cca gtg aaa aga gcc tcc cag gct atc tta      816
Ala Cys Pro Arg Val Ser Pro Val Lys Arg Ala Ser Gln Ala Ile Leu
260                                265                                270

ctg ctg gtg agt ttt gtc ttc aca tac tgg gtg gac ttt aag ttc tca      864
Leu Leu Val Ser Phe Val Phe Thr Tyr Trp Val Asp Phe Thr Phe Ser
275                                280                                285

ttt tca gga ggt gtg aca tgg ata aat gat tct ctg cta gtg tgg ctg      912
Phe Ser Gly Gly Val Thr Trp Ile Asn Asp Ser Leu Leu Val Trp Leu
290                                295                                300

cag gtt att gtg gcc aat agc tat gcc gca att agt cct ttg atg cta      960
Gln Val Ile Val Ala Asn Ser Tyr Ala Ala Ile Ser Pro Leu Met Leu
305                                310                                315

att tat gct gat aac caa ata ttc aag act ctg cca atg tta tgg ttt      1008
Ile Tyr Ala Asp Asn Gln Ile Phe Lys Thr Leu Gln Met Leu Trp Phe
325                                330                                335

aaa tat ttg tcc cct cca aag ctg atg ttg aaa ttt aat cgc caa tgt      1056
Lys Tyr Leu Ser Pro Pro Lys Leu Met Leu Lys Phe Asn Arg Gln Cys
340                                345                                350

ggc agt act aag aag tga
Gly Ser Thr Lys Lys
355

<210> 4
<211> 357
<212> PRT
<213> Homo Sapiens

<400> 4

Met Leu Lys Leu Val Ile Ile Glu Asn Met Ala Glu Ile Met Leu Phe
1                                5                                10                                15

Ser Leu Asp Leu Leu Leu Phe Ser Thr Asp Ile Leu Cys Phe Asn Phe
20                                25                                30

Pro Ser Lys Met Ile Lys Leu Pro Gly Phe Ile Thr Ile Gln Ile Phe
35                                40                                45

Phe Tyr Pro Gln Ala Ser Phe Gly Ile Ser Ala Asn Thr Ile Leu Leu
50                                55                                60

Leu Tyr His Ile Phe Thr Phe Val Phe Ser His Arg Ser Lys Ser Ile
65                                70                                75                                80

Asp Met Ile Ile Ser His Leu Ser Leu Ile His Ile Leu Leu Leu Phe

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85	90	95
Thr Gln Ala Ile Leu Val Ser Leu Asp Phe Phe Gly Ser Gln Asn Thr 100 105 110		
Gln Asp Asp Leu Arg Tyr Lys Val Ile Val Phe Leu Asn Lys Val Met 115 120 125		
Arg Gly Leu Ser Ile Cys Thr Pro Cys Leu Leu Ser Val Leu Gln Ala 130 135 140		
Ile Ile Ser Pro Ser Ile Phe Ser Leu Ala Lys Leu Lys His Pro Ser 145 150 155 160		
Ala Ser His Ile Leu Gly Phe Phe Leu Phe Ser Trp Val Leu Asn Met 165 170 175		
Phe Ile Gly Val Ile Phe Cys Cys Thr Leu Arg Leu Pro Pro Val Lys 180 185 190		
Arg Gly Glu Ser Ser Val Cys His Thr Ala Leu Phe Leu Phe Ala His 195 200 205		
Glu Leu His Pro Gln Glu Thr Val Phe His Thr Asn Asp Phe Glu Gly 210 215 220		
Cys His Leu Tyr Arg Val His Gly Pro Leu Lys Arg Leu His Gly Asp 225 230 235 240		
Tyr Phe Ile Gln Thr Ile Arg Gly Tyr Leu Ser Ala Phe Thr Gln Pro 245 250 255		
Ala Cys Pro Arg Val Ser Pro Val Lys Arg Ala Ser Gln Ala Ile Leu 260 265 270		
Leu Leu Val Ser Phe Val Phe Thr Tyr Trp Val Asp Phe Thr Phe Ser 275 280 285		
Phe Ser Gly Gly Val Thr Trp Ile Asn Asp Ser Leu Leu Val Trp Leu 290 295 300		
Gln Val Ile Val Ala Asn Ser Tyr Ala Ala Ile Ser Pro Leu Met Leu 305 310 315 320		
Ile Tyr Ala Asp Asn Gln Ile Phe Lys Thr Leu Gln Met Leu Trp Phe 325 330 335		

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Lys Tyr Leu Ser Pro Pro Lys Leu Met Leu Lys Phe Asn Arg Gln Cys
 340 345 350

Gly Ser Thr Lys Lys
 355

<210> 5
 <211> 981
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(978)
 <223>

<400> 5
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 Met Cys Pro Leu Thr Leu Gln Val Thr Gly Leu Met Asn Val Ser Glu
 1 5 10 15
 cca aat tcc agc ttt gct ttt gta aat gaa ttt ata ctc caa ggt ttc 96
 Pro Asn Ser Ser Phe Ala Phe Val Asn Glu Phe Ile Leu Gln Gly Phe
 20 25 30
 tct tgt gag tgg aca att cag atc ttc ctc ttc tca ctc ttt act aca 144
 Ser Cys Glu Trp Thr Ile Gln Ile Phe Leu Phe Ser Leu Phe Thr Thr
 35 40 45
 aca tat gca ctg act ata aca ggg aat gga gcc att gct ttt gtc ctg 192
 Thr Tyr Ala Leu Thr Ile Thr Gly Asn Gly Ala Ile Ala Phe Val Leu
 50 55 60
 tgg tgt gac cgg cga ctt cac act ccc atg tac atg ttc ctg gga aat 240
 Trp Cys Asp Arg Arg Leu His Thr Pro Met Tyr Met Phe Leu Gly Asn
 65 70 75 80
 ttc tcc ttt tta gag ata tgg tat gtc tct tct aca gtt ccc aag atg 288
 Phe Ser Phe Leu Glu Ile Trp Tyr Val Ser Ser Thr Val Pro Lys Met
 85 90 95
 ttg gtc aac ttc ctt tca gag aaa aaa aac atc tcc ttt gct gga tgt 336
 Leu Val Asn Phe Leu Ser Glu Lys Lys Asn Ile Ser Phe Ala Gly Cys
 100 105 110
 ttt ctc cag ttt tat ttc ttc ttc tct ttg ggt aca tca gaa tgc ttg 384
 Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly Thr Ser Glu Cys Leu
 115 120 125
 ctt ttg act gtg atg gcc ttt gat cag tac ctt gct atc tgc cgt ccc 432
 Leu Leu Thr Val Met Ala Phe Asp Gln Tyr Leu Ala Ile Cys Arg Pro
 130 135 140
 ttg ctc tct cct aat atc atg act ggg cat ctc tat gcc aza ctg gtc 480
 Leu Leu Tyr Pro Asn Ile Met Thr Gly His Leu Tyr Ala Lys Leu Val
 145 150 155 160

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ata ctg tgc tgg gtt tgt gga ttt ctg tgg ttc ctg atc ccc att gtt      528
ile leu cys trp          165          170          175
ctc atc tct cag atg ccc ttc tgt ggc cca aac att att gac cat gtt      576
leu ile ser gln met pro phe cys gly pro asn ile ile asp his val
          180          185          190
gtg tgt gac cca ggg cca cga ttt gca ttg gat tgt gtt tct gcc cca      624
val cys asp pro gly pro arg phe ala leu asp cys val ser ala pro
          195          200          205
aga atc caa ctg ttt tgc tac act cta agc tca tta gtt att ttt ggt      672
arg ile gln leu phe cys tyr thr leu ser ser leu val ile phe gly
          210          215          220
aac ttc ctc ttt att att gga tcc tat act ctt gtc ctg aaa gct atg      720
asn phe leu phe ile ile gly ser tyr thr leu val leu lys ala met
          225          230          235          240
ttg ggt atg cct tca agc act ggg aga cat aag gcc ttc tct acc tgt      768
leu gly met pro ser ser thr gly arg his lys ala phe ser thr cys
          245          250          255
ggg tct cat ttg gct gtg gta tca ctg tgc tat agc tct ctt atg gtc      816
gly ser his leu ala val val ser leu cys tyr ser ser leu met val
          260          265          270
atg tat gtg agc cca gga ctc gga cat tct aca ggg atg cag aaa att      864
met tyr val ser pro gly leu gly his ser thr gly met gln lys ile
          275          280          285
gaa act ttg ttc tat gct atg gtg acc cca ctc ttc aat ccc ctt atc      912
gln thr leu phe tyr ala met val thr pro leu phe asn pro leu ile
          290          295          300
tat agc ctc cag aat aag gag ata aag gca gcc ctg agg aaa gtt ctg      960
tyr ser leu gln asn lys glu ile lys ala ala leu arg lys val leu
          305          310          315          320
ggg agt tcc aac ata atc taa      981
gly ser ser asn ile ile
          325

<210> 6
<211> 326
<212> PRT
<213> Homo Sapiens

<400> 6
Met Cys Pro Leu Thr Leu Gln Val Thr Gly Leu Met Asn Val Ser Glu
1          5          10          15
Pro Asn Ser Ser Phe Ala Phe Val Asp Glu Phe Ile Leu Gln Gly Phe
20          25          30

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Ser Cys Glu Trp Thr Ile Gln Ile Phe Leu Phe Ser Leu Phe Thr Thr
 35 40 45
 Thr Tyr Ala Leu Thr Ile Thr Gly Asn Gly Ala Ile Ala Phe Val Leu
 50 55 60
 Trp Cys Asp Arg Arg Leu His Thr Pro Met Tyr Met Phe Leu Gly Asn
 65 70 75 80
 Phe Ser Phe Leu Glu Ile Trp Tyr Val Ser Ser Thr Val Pro Lys Met
 85 90 95
 Leu Val Asn Phe Leu Ser Glu Lys Lys Asn Ile Ser Phe Ala Gly Cys
 100 105 110
 Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly Thr Ser Glu Cys Leu
 115 120 125
 Leu Leu Thr Val Met Ala Phe Asp Gln Tyr Leu Ala Ile Cys Arg Pro
 130 135 140
 Leu Leu Tyr Pro Asn Ile Met Thr Gly His Leu Tyr Ala Lys Leu Val
 145 150 155 160
 Ile Leu Cys Trp Val Cys Gly Phe Leu Trp Phe Leu Ile Pro Ile Val
 165 170 175
 Leu Ile Ser Gln Met Pro Phe Cys Gly Pro Asn Ile Ile Asp His Val
 180 185 190
 Val Cys Asp Pro Gly Pro Arg Phe Ala Leu Asp Cys Val Ser Ala Pro
 195 200 205
 Arg Ile Gln Leu Phe Cys Tyr Thr Leu Ser Ser Leu Val Ile Phe Gly
 210 215 220
 Asn Phe Leu Phe Ile Ile Gly Ser Tyr Thr Leu Val Leu Lys Ala Met
 225 230 235 240
 Leu Gly Met Pro Ser Ser Thr Gly Arg His Lys Ala Phe Ser Thr Cys
 245 250 255
 Gly Ser His Leu Ala Val Val Ser Leu Cys Tyr Ser Ser Leu Met Val
 260 265 270
 Met Tyr Val Ser Pro Gly Leu Gly His Ser Thr Gly Met Gln Lys Ile

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275                280                285
Glu Thr Leu Phe Tyr Ala Met Val Thr Pro Leu Phe Asn Pro Leu Ile
290                295                300

Tyr Ser Leu Gln Asn Lys Glu Ile Lys Ala Ala Leu Arg Lys Val Leu
305                310                315                320

Gly Ser Ser Asn Ile Ile
325

<210> 7
<211> 945
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(942)
<223>

<400> 7
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Met Arg Gly Phe Asn Lys Thr Thr Val Val Thr Gln Phe Ile Leu Val
1                5                10                15

ggt ttc tcc agc ctg ggg gag ctg cag ctg ctg ctt ttt gtc atc ttt      96
Gly Phe Ser Ser Leu Gly Glu Leu Gln Leu Leu Phe Val Ile Phe
20                25                30

ctt ctc cta tac ttg aca atc ctg gtg gcc aat gtg acc atc atg gcc      144
Leu Leu Leu Tyr Leu Thr Ile Leu Val Ala Asn Val Thr Ile Met Ala
35                40                45

gtt att cgc ttc agc tgg act ctg cac act ccc atg tat ggc ttt cta      192
Val Ile Arg Phe Ser Trp Thr Leu His Thr Pro Met Tyr Gly Phe Leu
50                55                60

ttc atc ctt tca ttt tct gag tcc tgc tac act ttt gtc atc atc cct      240
Phe Ile Leu Ser Phe Ser Glu Ser Cys Tyr Thr Phe Val Ile Ile Pro
65                70                75                80

cag ctg ctg gtc cac ctg ctg tca gac acc aag acc atc tcc ttc atg      288
Gln Leu Leu Val His Leu Leu Ser Asp Thr Lys Thr Ile Ser Phe Met
85                90                95

gcc tgt gcc acc cag ctg ttc ttt ttc ctt ggc ttt gct tgc acc aac      326
Ala Cys Ala Thr Gln Leu Phe Phe Phe Leu Gly Phe Ala Cys Thr Asn
100                105                110

tgc ctc ctc att gct gtg atg gga tat gat cgc tat gta gca att tgt      364
Cys Leu Leu Ile Ala Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys
115                120                125

cac oot ctg agg tac aca ctg atc ata aac aaa agg ctg ggg ttg gag      432
His Pro Leu Arg Tyr Thr Leu Ile Ile Asn Lys Arg Leu Gly Leu Glu

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130      135      140
ttg att tot ctc tca gga gcc aca ggt ttc ttt att gct ttg gtg gcc      480
Leu Ile Ser Leu Ser Gly Ala Thr Gly Phe Phe Ile Ala Leu Val Ala
145      150      155      160
acc aac ctc att tgt gac atg cgt ttt tgt ggc ccc aac ags gtt aac      528
Thr Asn Leu Ile Cys Asp Met Arg Phe Cys Gly Pro Asn Arg Val Asn
165      170      175
cac tat ttc tgt gac atg gca cct gtt atc aag tta gcc tgc act gac      576
His Tyr Phe Cys Asp Met Ala Pro Val Ile Lys Leu Ala Cys Thr Asp
180      185      190
acc cat gtg aaa gag ctg gct tta ttt agc ctc agc atc ctg gta att      624
Thr His Val Lys Glu Leu Ala Leu Phe Ser Leu Ser Ile Leu Val Ile
195      200      205
atg gtg cct ttt ctg tta att ctc ata tcc tat ggc ttc ata gtt aac      672
Met Val Pro Phe Leu Leu Ile Leu Ile Ser Tyr Gly Phe Ile Val Asn
210      215      220
acc atc ctg aag atc ccc tca got gag ggc aag aag gcc ttt gtc acc      720
Thr Ile Leu Lys Ile Pro Ser Ala Glu Gly Lys Lys Ala Phe Val Thr
225      230      235      240
tgt gcc tca cat ctc act gtg gtc ttt gtc cac tat ggc tgc gcc tct      768
Cys Ala Ser His Leu Thr Val Val Phe Val His Tyr Gly Cys Ala Ser
245      250      255
atc atc tat ctg cgg ccc aag tcc aag tot gcc tca gac aag gat cag      816
Ile Ile Tyr Leu Arg Pro Lys Ser Lys Ser Ala Ser Asp Lys Asp Gln
260      265      270
ttg gtg gca gtg acc tac aca gtc gtt act ccc tta ctt aat cct ctt      864
Leu Val Ala Val Thr Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Leu
275      280      285
gtc tac agt ctg agg aac aaa gag gta aaa act gca ttg aaa aga gtt      912
Val Tyr Ser Leu Arg Asn Lys Glu Val Lys Thr Ala Leu Lys Arg Val
290      295      300
ctt gga atg cct gtg gca acc aag atg agc taa      945
Leu Gly Met Pro Val Ala Thr Lys Met Ser
305      310

<210> 8
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 8
Met Arg Gly Phe Asn Lys Thr Thr Val Val Thr Gln Phe Ile Leu Val
1      5      10      15
Gly Phe Ser Ser Leu Gly Glu Leu Gln Leu Leu Leu Phe Val Ile Phe
20      25      30

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PCT/BE01/00162

Leu Leu Leu Tyr Leu Thr Ile Leu Val Ala Asn Val Thr Ile Met Ala
 35 40 45
 Val Ile Arg Phe Ser Trp Thr Leu His Thr Pro Met Tyr Gly Phe Leu
 50 55 60
 Phe Ile Leu Ser Phe Ser Glu Ser Cys Tyr Thr Phe Val Ile Ile Pro
 65 70 75 80
 Gln Leu Leu Val His Leu Leu Ser Asp Thr Lys Thr Ile Ser Phe Met
 85 90 95
 Ala Cys Ala Thr Gln Leu Phe Phe Phe Leu Gly Phe Ala Cys Thr Asn
 100 105 110
 Cys Leu Leu Ile Ala Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys
 115 120 125
 His Pro Leu Arg Tyr Thr Leu Ile Ile Asn Lys Arg Leu Gly Leu Glu
 130 135 140
 Leu Ile Ser Leu Ser Gly Ala Thr Gly Phe Phe Ile Ala Leu Val Ala
 145 150 155 160
 Thr Asn Leu Ile Cys Asp Met Arg Phe Cys Gly Pro Asn Arg Val Asn
 165 170 175
 His Tyr Phe Cys Asp Met Ala Pro Val Ile Lys Leu Ala Cys Thr Asp
 180 185 190
 Thr His Val Lys Glu Leu Ala Leu Phe Ser Leu Ser Ile Leu Val Ile
 195 200 205
 Met Val Pro Phe Leu Leu Ile Leu Ile Ser Tyr Gly Phe Ile Val Asn
 210 215 220
 Thr Ile Leu Lys Ile Pro Ser Ala Glu Gly Lys Lys Ala Phe Val Thr
 225 230 235 240
 Cys Ala Ser His Leu Thr Val Val Phe Val His Tyr Gly Cys Ala Ser
 245 250 255
 Ile Ile Tyr Leu Arg Pro Lys Ser Lys Ser Ala Ser Asp Lys Asp Gln
 260 265 270

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PCT/BE01/00162

Leu Val Ala Val Thr Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Leu
275 280 285

Val Tyr Ser Leu Arg Asn Lys Glu Val Lys Thr Ala Leu Lys Arg Val
290 295 300

Leu Gly Met Pro Val Ala Thr Lys Met Ser
305 310

<210> 9
<211> 942
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(939)
<223>

<400> 9
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Met Asn Trp Val Asn Asp Ser Ile Ile Gln Glu Phe Ile Leu Leu Gly
1 5 10 15
ttc tca gat cga cct tgg ctg gag ttt cca ctc ctt gtg gtc ttc ttg 96
Phe Ser Asp Arg Pro Trp Leu Glu Phe Pro Leu Leu Val Val Phe Leu
20 25 30
att tct tac act gtg acc atc ttt ggc aat ctg acc att att cta gtg 144
Ile Ser Tyr Thr Val Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu Val
35 40 45
tca cgc ctg gac acc aaa ctt cat acc ccc atg tat ttt ttt ctt acc 192
Ser Arg Leu Asp Thr Lys Leu His Thr Pro Met Tyr Phe Phe Leu Thr
50 55 60
aat cta tca ctc ctg gat ctt tgt tac acc aca tgt aca gtc cca caa 240
Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Cys Thr Val Pro Gln
65 70 75 80
atg cta gta aat tta tgc agc atc agg aaa gta atc agt tat cgt ggc 288
Met Leu Val Asn Leu Cys Ser Ile Arg Lys Val Ile Ser Tyr Arg Gly
85 90 95
tgt gta gcc cag ctt ttc ata ttt ctg gcc ttg ggg gct act gaa tat 336
Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ala Thr Glu Tyr
100 105 110
ctt ctc ctg gcc gtc atg tcc ttt gat agg ttt gta gct att tgt cgg 384
Leu Leu Leu Ala Val Met Ser Phe Asp Arg Phe Val Ala Ile Cys Arg
115 120 125
cct ctc cat tac tca gtt atc atg cac cag aga ctc tgc ctc cag ttg 432
Pro Leu His Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu
130 135 140
gca gct gca tcc tgg gtt act ggt ttt agt aac tca gtg tgg ttg tct 480

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Ala Ala Ala Ser Trp Val Thr Gly Phe Ser Asn Ser Val Trp Leu Ser
 145 150 155 160

acc ctg act ctc cag ctg cca ctc tgt gac ccc tat gtg ata gat cac 538
 Thr Leu Thr Leu Gln Leu Pro Leu Cys Asp Pro Tyr Val Ile Asp His
 165 170 175

ttt ctc tgt gaa gtc cct gca ctg ctc aag tta tct tgt gtt gag aca 576
 Phe Leu Cys Gln Val Pro Ala Leu Leu Lys Leu Ser Cys Val Glu Thr
 180 185 190

aca gca aat gag gct gaa cta ttc ctt gtc agt gag ctc ttc cat cta 624
 Thr Ala Asn Gln Ala Glu Leu Phe Leu Val Ser Glu Leu Phe His Leu
 195 200 205

ata ccc ctg aca ctc atc ctt ata tca tat got ttt att gtc oga gca 672
 Ile Pro Leu Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Arg Ala
 210 215 220

gta ttg agg ata cag tct gct gaa ggt cga caa aaa gca ttt ggg aca 720
 Val Leu Arg Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr
 225 230 235 240

tgt ggt tcc cat cta att gtg gtg tct ctt ttt tat agt aca gcc gtc 768
 Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Ser Thr Ala Val
 245 250 255

tct gtg tac ctg caa cca cct tcy ooc agc tcc aag gac caa gga aag 816
 Ser Val Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys
 260 265 270

atg gtt tct ctc ttc tat gga atc att gca ccc atg ctg aat ccc ctt 864
 Met Val Ser Leu Phe Tyr Gly Ile Ile Ala Pro Met Leu Asn Pro Leu
 275 280 285

ata tat aca ctt agg aac aag gag gta aag gaa gcc ttt aaa agg ttg 912
 Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Gly Phe Lys Arg Leu
 290 295 300

gtt gca aga gtc ttc tta atc aag aaa taa 942
 Val Ala Arg Val Phe Leu Ile Lys Lys
 305 310

<210> 10
 <211> 313
 <212> PRT
 <213> Homo Sapiens

<400> 10

Met Asn Trp Val Asn Asp Ser Ile Ile Gln Glu Phe Ile Leu Leu Gly
 1 5 10 15

Phe Ser Asp Arg Pro Trp Leu Glu Phe Pro Leu Leu Val Val Phe Leu
 20 25 30

Ile Ser Tyr Thr Val Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu Val
 35 40 45

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Ser Arg Leu Asp Thr Lys Leu His Thr Pro Met Tyr Phe Phe Leu Thr
 50 55 60
 Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Cys Thr Val Pro Gln
 65 70 75 80
 Met Leu Val Asn Leu Cys Ser Ile Arg Lys Val Ile Ser Tyr Arg Gly
 85 90 95
 Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ala Thr Glu Tyr
 100 105 110
 Leu Leu Leu Ala Val Met Ser Phe Asp Arg Phe Val Ala Ile Cys Arg
 115 120 125
 Pro Leu His Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu
 130 135 140
 Ala Ala Ala Ser Trp Val Thr Gly Phe Ser Asn Ser Val Trp Leu Ser
 145 150 155 160
 Thr Leu Thr Leu Gln Leu Pro Leu Cys Asp Pro Tyr Val Ile Asp His
 165 170 175
 Phe Leu Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Glu Thr
 180 185 190
 Thr Ala Asn Glu Ala Glu Leu Phe Leu Val Ser Glu Leu Phe His Leu
 195 200 205
 Ile Pro Leu Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Arg Ala
 210 215 220
 Val Leu Arg Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr
 225 230 235 240
 Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Ser Thr Ala Val
 245 250 255
 Ser Val Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys
 260 265 270
 Met Val Ser Leu Phe Tyr Gly Ile Ile Ala Pro Met Leu Asn Pro Leu
 275 280 285

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Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Gly Phe Lys Arg Leu
 290 295 300

Val Ala Arg Val Phe Leu Ile Lys Lys
 305 310

<210> 11
 <211> 939
 <212> DNA
 <213> Homo Sapiens

<226>
 <221> CDS
 <223> (1)..(936)
 <223>

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 Met Glu Pro Leu Asn Arg Thr Glu Val Ser Glu Phe Phe Leu Lys Gly
 1 5 10 15
 ttt tct gcc tac cca gcc ctg gag cat ctg ctc ttc cct ctg tgc tca 96
 Phe Ser Gly Tyr Pro Ala Leu Glu His Leu Leu Phe Pro Leu Cys Ser
 20 25 30
 gcc atg tac ctg gtg acc ctc ctg ggg aac aca gcc atc atg gcc gtg 144
 Ala Met Tyr Leu Val Thr Leu Leu Gly Asn Thr Ala Ile Met Ala Val
 35 40 45
 agc gtg cta gat atc cac ctg cac acg ccc gtg tac ttc ttc ctg gcc 192
 Ser Val Leu Asp Ile His Leu His Thr Pro Val Tyr Phe Phe Leu Gly
 50 55 60
 aac ctc tct acc ctg gac atc tgc tac acg ccc acc ttt gtg cct ctg 240
 Asn Leu Ser Thr Leu Asp Ile Cys Tyr Thr Pro Thr Phe Val Pro Leu
 65 70 75 80
 atg ctg gtc cac ctc ctg tca tcc cgg aag acc atc tcc ttt gct gtc 288
 Met Leu Val His Leu Leu Ser Ser Arg Lys Thr Ile Ser Phe Ala Val
 85 90 95
 tgt gcc atc cag atg tgt ctg agc ctg tcc acg gcc tcc acg gag tgc 336
 Cys Ala Ile Gln Met Cys Leu Ser Leu Ser Thr Gly Ser Thr Glu Cys
 100 105 110
 ctg cta ctg gcc atc acg gcc tat gac cgc tac ctg gcc atc tgc cag 384
 Leu Leu Leu Ala Ile Thr Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Gln
 115 120 125
 cca ctc agg tac cac gtg ctc atg agc cac cgg ctc tgc gtg ctg ctg 432
 Pro Leu Arg Tyr His Val Leu Met Ser His Arg Leu Cys Val Leu Leu
 130 135 140
 atg gga gct gcc tgg gtc ctc tgc ctc ctc aag tgg gtg act gag atg 480
 Met Gly Ala Ala Trp Val Leu Cys Leu Leu Lys Ser Val Thr Glu Met
 145 150 155 160

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gtc atc tcc atg agg ctg ccc ttc tgt ggc cac cac gtg gtc agt cac      528
Val Ile Ser Met Arg Leu Pro Phe Cys Gly His His Val Val Ser His
      165      170      175

ttc aac tgc aag atc ctg gca gtg ctg aag ctg gca tgc ggc aac acg      576
Phe Thr Cys Lys Ile Leu Ala Val Leu Lys Leu Ala Cys Gly Asn Thr
      180      185      190

tcg gtc agc gaa gac ttc ctg ctg gcg ggc tcc atc ctg ctg ctg cct      624
Ser Val Ser Glu Asp Phe Leu Leu Ala Gly Ser Ile Leu Leu Leu Pro
      195      200      205

gta ccc ctg gca ttc atc tgc ctg tcc tac ttg ctc atc ctg gcc acc      672
Val Pro Leu Ala Phe Ile Cys Leu Ser Tyr Leu Leu Ile Leu Ala Thr
      210      215      220

atc ctg agg gtg ccc tcg gcc gcc agg tgc tgc aaa gcc ttc tcc acc      720
Ile Leu Arg Val Pro Ser Ala Ala Arg Cys Cys Lys Ala Phe Ser Thr
      225      230      235      240

tgc ttg gca cac ctg gct gta gtg ctg ctt ttc tac ggc acc atc atc      768
Cys Leu Ala His Leu Ala Val Val Leu Leu Phe Tyr Gly Thr Ile Ile
      245      250      255

ttc atg tac ttg aag ccc aag agt aag gaa gcc cac atc tct gat gag      816
Phe Met Tyr Leu Lys Pro Lys Ser Lys Glu Ala His Ile Ser Asp Glu
      260      265      270

gtc ttc aca gtc ctc tat gcc atg gtc acg acc atg ctg aac ccc acc      864
Val Phe Thr Val Leu Tyr Ala Met Val Thr Thr Met Leu Asn Pro Thr
      275      280      285

atc tac agc ctg agg aac aag gag gtg aag gag gcc gcc agg aag gtg      912
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Ala Arg Lys Val
      290      295      300

tgg gcc agg agt cgg gcc tcc agg tga      939
Trp Gly Arg Ser Arg Ala Ser Arg
      305      310

<210> 12
<211> 312
<212> PRT
<213> Homo Sapiens

<400> 12
Met Glu Pro Leu Asn Arg Thr Glu Val Ser Glu Phe Phe Leu Lys Gly
1      5      10      15

Phe Ser Gly Tyr Pro Ala Leu Glu His Leu Leu Phe Pro Leu Cys Ser
20      25      30

Ala Met Tyr Leu Val Thr Leu Leu Gly Asn Thr Ala Ile Met Ala Val
35      40      45

Ser Val Leu Asp Ile His Leu His Thr Pro Val Tyr Phe Phe Leu Gly

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50              55              60

Asn Leu Ser Thr Leu Asp Ile Cys Tyr Thr Pro Thr Phe Val Pro Leu
65              70              75              80

Met Leu Val His Leu Leu Ser Ser Arg Lys Thr Ile Ser Phe Ala Val
85              90              95

Cys Ala Ile Gln Met Cys Leu Ser Leu Ser Thr Gly Ser Thr Glu Cys
100             105             110

Leu Leu Leu Ala Ile Thr Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Gln
115             120             125

Pro Leu Arg Tyr His Val Leu Met Ser His Arg Leu Cys Val Leu Leu
130             135             140

Met Gly Ala Ala Trp Val Leu Cys Leu Leu Lys Ser Val Thr Glu Met
145             150             155             160

Val Ile Ser Met Arg Leu Pro Phe Cys Gly His His Val Val Ser His
165             170             175

Phe Thr Cys Lys Ile Leu Ala Val Leu Lys Leu Ala Cys Gly Asn Thr
180             185             190

Ser Val Ser Glu Asp Phe Leu Leu Ala Gly Ser Ile Leu Leu Leu Pro
195             200             205

Val Pro Leu Ala Phe Ile Cys Leu Ser Tyr Leu Leu Ile Leu Ala Thr
210             215             220

Ile Leu Arg Val Pro Ser Ala Ala Arg Cys Cys Lys Ala Phe Ser Thr
225             230             235             240

Cys Leu Ala His Leu Ala Val Val Leu Leu Phe Tyr Gly Thr Ile Ile
245             250             255

Phe Met Tyr Leu Lys Pro Lys Ser Lys Glu Ala His Ile Ser Asp Glu
260             265             270

Val Phe Thr Val Leu Tyr Ala Met Val Thr Thr Met Leu Asn Pro Thr
275             280             285

Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Ala Arg Lys Val
290             295             300

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Trp Gly Arg Ser Arg Ala Ser Arg
305 310

<210> 13
<211> 1083
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(1080)
<223>

<400> 13
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Met Ser Ile Gln Lys Thr Tyr Leu Glu Gly Asp Phe Val Phe Pro Val
1 5 10 15
agc agc agc agc ttc cta cgg acc ctg ctg gag ccc cag ctc gga tca 96
Ser Ser Ser Ser Phe Leu Arg Thr Leu Leu Glu Pro Gln Leu Gly Ser
20 25 30
gcc ctt ctg aca gca atg aat gct tgg tgc tgc ctg ccc tct gtt cag 144
Ala Leu Leu Thr Ala Met Asn Ala Ser Cys Cys Leu Pro Ser Val Gln
35 40 45
cca aca ctg cct aat agc tgg gag cac ctg caa gcc cct ttc ttc agc 192
Pro Thr Leu Pro Asn Gly Ser Glu His Leu Gln Ala Pro Phe Phe Ser
50 55 60
aac cag agc agc agc gcc ttc tgt gag cag gtc ttc atc aag ccc gag 240
Asn Gln Ser Ser Ser Ala Phe Cys Glu Gln Val Phe Ile Lys Pro Glu
65 70 75 80
gtt ttc ctg tct ctg gcc atc gtc agt ctg ctg gaa aac atc ctg gtt 288
Val Phe Leu Ser Leu Gly Ile Val Ser Leu Leu Glu Asn Ile Leu Val
85 90 95
atc ctg gcc gtg gtc agg aac gcc aac ctg cac tcc cgg atg tac ttc 336
Ile Leu Ala Val Val Arg Asn Gly Asn Leu His Ser Pro Met Tyr Phe
100 105 110
ttt ctc tgc agc ctg gcg gtg gcc gac atg ctg gta agt gtg tcc aat 384
Phe Leu Cys Ser Leu Ala Val Ala Asp Met Leu Val Ser Val Ser Asn
115 120 125
gcc ctg gag acc atc atg atc gcc atc gtc cac agc gac tac ctg acc 432
Ala Leu Glu Thr Ile Met Ile Ala Ile Val His Ser Asp Tyr Leu Thr
130 135 140
ttc gag gac cag ttt atc cag cac atg gac aac atc ttc gac tcc atg 480
Phe Glu Asp Gln Phe Ile Gln His Met Asp Asn Ile Phe Asp Ser Met
145 150 155 160
atc tgc atc tcc ctg gtg gcc tcc atc tgc aac ctg ctg gcc atc gcc 528
Ile Cys Ile Ser Leu Val Ala Ser Ile Cys Asn Leu Leu Ala Ile Ala
165 170 175

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gtc gac agg tac gtc acc atc ttt tac ggc ctc cgc tac cac agc atc      576
Val Asp Arg Tyr Val Thr Ile Phe Tyr Ala Leu Arg Tyr His Ser Ile
      180      185      190

atg acc gtg agg aag gcc ctc acc ttg atc gtg gcc atc tgg gtc tgc      624
Met Thr Val Arg Lys Ala Leu Thr Leu Ile Val Ala Ile Trp Val Cys
      195      200      205

tgc ggc gtc tgt ggc gtg gtg ttc atc gtc tac tgg gag agc aaa atg      672
Cys Gly Val Cys Gly Val Val Phe Ile Val Tyr Ser Glu Ser Lys Met
      210      215      220

gtc att gtg tgc ctc atc acc atg ttc ttc gcc atg atg ctc ctc atg      720
Val Ile Val Cys Leu Ile Thr Met Phe Phe Ala Met Met Leu Leu Met
      225      230      235      240

ggc acc ctc tac gtg cac atg ttc ctc ttt ggc cgg ctg cac gtc aag      768
Gly Thr Leu Tyr Val His Met Phe Leu Phe Ala Arg Leu His Val Lys
      245      250      255

cgc ata gca gca ctg cca cct gcc gac ggg gtg gcc cca cag caa cac      816
Arg Ile Ala Ala Leu Pro Pro Ala Asp Gly Val Ala Pro Gln Gln His
      260      265      270

tca tgc atg aag ggg gca gtc acc atc acc att ctc ctg ggc gtg ttc      864
Ser Cys Met Lys Gly Ala Val Thr Ile Thr Ile Leu Leu Gly Val Phe
      275      280      285

atc ttc tgc tgg gcc ccc ttc ttc ctc cac ctg gtc ctc atc atc acc      912
Ile Phe Cys Tyr Ala Pro Phe Phe Leu His Leu Val Leu Ile Ile Thr
      290      295      300

tgc ccc acc aac ccc tac tgc atc tgc tac act gcc cac ttc aac acc      960
Cys Pro Thr Asn Pro Tyr Cys Ile Cys Tyr Thr Ala His Phe Asn Thr
      305      310      315      320

tac ctg gtc ctc atc atg tgc aac tcc gtc atc gac cca ctc atc tac      1008
Tyr Leu Val Leu Ile Met Cys Asn Ser Val Ile Asp Pro Leu Ile Tyr
      325      330      335

gct ttc cgg agc ctg gaa ttg cgc aac acc ttt agg gag att ctc tgt      1056
Ala Phe Arg Ser Leu Glu Leu Arg Asn Thr Phe Arg Glu Ile Leu Cys
      340      345      350

ggc tgc aac ggc atg aac ttg gga tag      1083
Gly Cys Asn Gly Met Asn Leu Gly
      355      360

<210> 14
<211> 360
<212> FRT
<213> Homo Sapiens

<400> 14
Met Ser Ile Gln Lys Thr Tyr Leu Glu Gly Asp Phe Val Phe Pro Val
1 5 10 15

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Ser Ser Ser Ser Phe Leu Arg Thr Leu Leu Glu Pro Gln Leu Gly Ser
 20 25 30
 Ala Leu Leu Thr Ala Met Asn Ala Ser Cys Cys Leu Pro Ser Val Gln
 35 40 45
 Pro Thr Leu Pro Asn Gly Ser Glu His Leu Gln Ala Pro Phe Phe Ser
 50 55 60
 Asn Gln Ser Ser Ser Ala Phe Cys Glu Gln Val Phe Ile Lys Pro Glu
 65 70 75 80
 Val Phe Leu Ser Leu Gly Ile Val Ser Leu Leu Glu Asn Ile Leu Val
 85 90 95
 Ile Leu Ala Val Val Arg Asn Gly Asn Leu His Ser Pro Met Tyr Phe
 100 105 110
 Phe Leu Cys Ser Leu Ala Val Ala Asp Met Leu Val Ser Val Ser Asn
 115 120 125
 Ala Leu Glu Thr Ile Met Ile Ala Ile Val His Ser Asp Tyr Leu Thr
 130 135 140
 Phe Glu Asp Gln Phe Ile Gln His Met Asp Asn Ile Phe Asp Ser Met
 145 150 155 160
 Ile Cys Ile Ser Leu Val Ala Ser Ile Cys Asn Leu Leu Ala Ile Ala
 165 170 175
 Val Asp Arg Tyr Val Thr Ile Phe Tyr Ala Leu Arg Tyr His Ser Ile
 180 185 190
 Met Thr Val Arg Lys Ala Leu Thr Leu Ile Val Ala Ile Trp Val Cys
 195 200 205
 Cys Gly Val Cys Gly Val Val Phe Ile Val Tyr Ser Glu Ser Lys Met
 210 215 220
 Val Ile Val Cys Leu Ile Thr Met Phe Phe Ala Met Met Leu Leu Met
 225 230 235 240
 Gly Thr Leu Tyr Val His Met Phe Leu Phe Ala Arg Leu His Val Lys
 245 250 255
 Arg Ile Ala Ala Leu Pro Pro Ala Asp Gly Val Ala Pro Gln Gln His

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                260                265                270
Ser Cys Met Lys Gly Ala Val Thr Ile Thr Ile Leu Leu Gly Val Phe
   275                280                285

Ile Phe Cys Trp Ala Pro Phe Phe Leu His Leu Val Leu Ile Ile Thr
   290                295                300

Cys Pro Thr Asn Pro Tyr Cys Ile Cys Tyr Thr Ala His Phe Asn Thr
   305                310                315                320

Tyr Leu Val Leu Ile Met Cys Asn Ser Val Ile Asp Pro Leu Ile Tyr
   325                330                335

Ala Phe Arg Ser Leu Glu Leu Arg Asn Thr Phe Arg Glu Ile Leu Cys
   340                345                350

Gly Cys Asn Gly Met Asn Leu Gly
   355                360

<210> 15
<211> 936
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(933)
<223>

<400> 15
atg aaa ggg gca aac ctg agc caa ggg atg gag ttt gag ctc ttg ggc      48
Met Lys Gly Ala Asn Leu Ser Gln Gly Met Glu Phe Glu Leu Leu Gly
1                5                10                15

ctc acc act gac ccc cag ctc cag agg ctg ctc ttc gtg gtg ttc ctg      96
Leu Thr Thr Asp Pro Gln Leu Gln Arg Leu Leu Phe Val Val Phe Leu
20                25                30

ggc atg tac aca gcc act ctg ctg ggg aac ctg gtc atg ttc ctc ctg      144
Gly Met Tyr Thr Ala Thr Leu Leu Gly Asn Leu Val Met Phe Leu Leu
35                40                45

atc cat gtg agt gcc acc ctg cac aca ccc atg tac tcc ctc ctg aag      192
Ile His Val Ser Ala Thr Leu His Thr Pro Met Tyr Ser Leu Leu Lys
50                55                60

agc ctc tcc ttc ttg gat ttc tgc tac tcc tcc acg gtt gtg ccc cag      240
Ser Leu Ser Phe Leu Asp Phe Cys Tyr Ser Ser Thr Val Val Pro Gln
65                70                75                80

acc ctg gtg aac ttc ttg gcc aag agg aaa gtg atc tct tat ttt ggc      288
Thr Leu Val Asn Phe Leu Ala Lys Arg Lys Val Ile Ser Tyr Phe Gly

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	85	90	95	
tgc atg act cag atg ttc ttc tat ggc ggt ttt gcc acc agt gag tgc				336
Cys Met Thr Gln Met Phe Phe Tyr Ala Gly Phe Ala Thr Ser Glu Cys				
	100	105	110	
tat ctc atc gct gcc atg gcc tat gac cgc tat gcc gct att tgt aac				384
Tyr Leu Ile Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Asn				
	115	120	125	
ccc ctg ctc tac tca acc atc atg tct cct gag gtc tgt gcc tgc ctg				432
Pro Leu Leu Tyr Ser Thr Ile Met Ser Pro Glu Val Cys Ala Ser Leu				
	130	135	140	
att gtg ggc tcc tac agt gca gga ttc ctc aat tct ctt atc cac act				480
Ile Val Gly Ser Tyr Ser Ala Gly Phe Leu Asn Ser Leu Ile His Thr				
	145	150	155	160
ggc tgt atc ttt agt ctg aaa ttc tgc ggt gct cat gtc gtc act cac				528
Gly Cys Ile Phe Ser Leu Lys Phe Cys Gly Ala His Val Val Thr His				
	165	170	175	
ttc ttc tgt gat ggg cca ccc acc ctg tcc ttg tct tgt gta gac acc				576
Phe Phe Cys Asp Gly Pro Pro Ile Leu Ser Leu Ser Cys Val Asp Thr				
	180	185	190	
tca ctg tgt gag atc ctg ctc ttc att ttt gct ggt ttc aac ctt ttg				624
Ser Leu Cys Glu Ile Leu Leu Phe Ile Phe Ala Gly Phe Asn Leu Leu				
	195	200	205	
agc tgc acc ctc acc atc ttg atc tcc tac ttc tta att ctc aac acc				672
Ser Cys Thr Leu Thr Ile Leu Ile Ser Tyr Phe Leu Ile Leu Asn Thr				
	210	215	220	
atc ctg aaa atg agc tgc gcc cag ggc agg ttt aag gca ttt tcc acc				720
Ile Leu Lys Met Ser Ser Ala Gln Gly Arg Phe Lys Ala Phe Ser Thr				
	225	230	235	240
tgt gca tcc cac ctc act gcc atc tgc ctc ttc ttt ggc aca aca ctt				768
Cys Ala Ser His Leu Thr Ala Ile Cys Leu Phe Phe Gly Thr Thr Leu				
	245	250	255	
ttt atg tac ctg cgc ccc agg tcc agc tac tcc ttg acc cag gac cgc				816
Phe Met Tyr Leu Arg Pro Arg Ser Ser Tyr Ser Leu Thr Gln Asp Arg				
	260	265	270	
aca gtt gct gtc atc tac aca gtg gtg atc cca gtg ctg aac ccc ctc				864
Thr Val Ala Val Ile Tyr Thr Val Val Ile Pro Val Leu Asn Pro Leu				
	275	280	285	
atg tac tct ttg aga aac aag gat gtg aag aaa gct tta ata aag gtt				912
Met Tyr Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Leu Ile Lys Val				
	290	295	300	
tgg ggt agg aaa aca atg gaa tga				936
Trp Gly Arg Lys Thr Met Glu				
	305	310		

<210> 16
 <211> 311

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<213> PRT
 <213> Homo Sapiens

<400> 16

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Met Lys Gly Ala Asn Leu Ser Gln Gly Met Glu Phe Glu Leu Leu Gly
1      5      10      15

Leu Thr Thr Asp Pro Gln Leu Gln Arg Leu Leu Phe Val Val Phe Leu
20      25      30

Gly Met Tyr Thr Ala Thr Leu Leu Gly Asn Leu Val Met Phe Leu Leu
35      40      45

Ile His Val Ser Ala Thr Leu His Thr Pro Met Tyr Ser Leu Leu Lys
50      55      60

Ser Leu Ser Phe Leu Asp Phe Cys Tyr Ser Ser Thr Val Val Pro Gln
65      70      75      80

Thr Leu Val Asn Phe Leu Ala Lys Arg Lys Val Ile Ser Tyr Phe Gly
85      90      95

Cys Met Thr Gln Met Phe Phe Tyr Ala Gly Phe Ala Thr Ser Glu Cys
100     105     110

Tyr Leu Ile Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Asn
115     120     125

Pro Leu Leu Tyr Ser Thr Ile Met Ser Pro Glu Val Cys Ala Ser Leu
130     135     140

Ile Val Gly Ser Tyr Ser Ala Gly Phe Leu Asn Ser Leu Ile His Thr
145     150     155     160

Gly Cys Ile Phe Ser Leu Lys Phe Cys Gly Ala His Val Val Thr His
165     170     175

Phe Phe Cys Asp Gly Pro Pro Ile Leu Ser Leu Ser Cys Val Asp Thr
180     185     190

Ser Leu Cys Glu Ile Leu Leu Phe Ile Phe Ala Gly Phe Asn Leu Leu
195     200     205

Ser Cys Thr Leu Thr Ile Leu Ile Ser Tyr Phe Leu Ile Leu Asn Thr
210     215     220

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Ile Leu Lys Met Ser Ser Ala Gln Gly Arg Phe Lys Ala Phe Ser Thr
225 230 235 240

Cys Ala Ser His Leu Thr Ala Ile Cys Leu Phe Phe Gly Thr Thr Leu
245 250 255

Phe Met Tyr Leu Arg Pro Arg Ser Ser Tyr Ser Leu Thr Gln Asp Arg
260 265 270

Thr Val Ala Val Ile Tyr Thr Val Val Ile Pro Val Leu Asn Pro Leu
275 280 285

Met Tyr Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Leu Ile Lys Val
290 295 300

Trp Gly Arg Lys Thr Met Glu
305 310

<210> 17
<211> 965
<212> DNA
<213> Homo Sapiens

<220>
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<222> (1)..(942)
<223>

<400> 17
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Met Gly Val Lys Asn His Ser Thr Val Thr Glu Phe Leu Leu Ser Gly
1 5 10 15
tta act gaa caa gca gag ctt cag ctg ccc etc ttc tgc etc ttc tta 96
Leu Thr Glu Gln Ala Glu Leu Gln Leu Pro Leu Phe Cys Leu Phe Leu
20 25 30
gga att tac aca gtt act gtg gtg gga aac etc agc atg ato tca att 144
Gly Ile Tyr Thr Val Thr Val Val Gly Asn Leu Ser Met Ile Ser Ile
35 40 45
att agg ctg aat cgt caa ctt cat acc ccc atg tac tat ttc ctg agt 192
Ile Arg Leu Asn Arg Gln Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
50 55 60
agt ttg tct ttt tta gat ttc tgc tat tct tct gtc att acc cct aaa 240
Ser Leu Ser Phe Leu Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys
65 70 75 80
atg cta tca ggg ttt tta tgc aga gat aga tcc atc tcc tat tct gga 288
Met Leu Ser Gly Phe Leu Cys Arg Asp Arg Ser Ile Ser Tyr Ser Gly
85 90 95
tgc atg att cag ctg ttt ttt ttc tgt gtt tgt gtt att tct gaa tgc 336

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Cys Met Ile Gln Leu Phe Phe Phe Cys Val Cys Val Ile Ser Glu Cys
      100              105              110
tac atg ctg gca gcc atg gcc tgc gat cgc tac gtg gcc atc tgc agc      384
Tyr Met Leu Ala Ala Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Ser
      115              120              125
cca ctg ctc tac agg gtc atc atg tcc cct agg gtc tgt tct ctg ctg      432
Pro Leu Leu Tyr Arg Val Ile Met Ser Pro Arg Val Cys Ser Leu Leu
      130              135              140
gtg gct gct gtc ttc tca gta ggt ttc act gat gct gtg atc cat gga      480
Val Ala Ala Val Phe Ser Val Gly Phe Thr Asp Ala Val Ile His Gly
      145              150              155              160
ggg tgt ata ctc agg ttg tct ttc tgt gga tca aac atc att aaa cat      528
Gly Cys Ile Leu Arg Leu Ser Phe Cys Gly Ser Asn Ile Ile Lys His
      165              170              175
tat ttc tgt gac att gtc cct ctt att aaa ctc tcc tgc tcc agc act      576
Tyr Phe Cys Asp Ile Val Pro Leu Ile Lys Leu Ser Cys Ser Ser Thr
      180              185              190
tat att gat gag ctt ttg att ttt gtc att ggt gga ttt aac atg gtg      624
Tyr Ile Asp Glu Leu Leu Ile Phe Val Ile Gly Gly Phe Asn Met Val
      195              200              205
gcc aca agc cta acc atc att att tca tat gct ttt atc ctc acc agc      672
Ala Thr Ser Leu Thr Thr Ile Ile Ile Ser Tyr Ala Phe Ile Leu Thr Ser
      210              215              220
atc ctg cgc atc cgc tct aaa aag ggc agg tgc aaa ggc ttt agc acc      720
Ile Leu Arg Ile His Ser Lys Lys Gly Arg Cys Lys Ala Phe Ser Thr
      225              230              235              240
tgt agc tcc csc ctg aca gct gtt ctt atg ttt tat ggg tct ctg atg      768
Cys Ser Ser His Leu Thr Ala Val Leu Met Phe Tyr Gly Ser Leu Met
      245              250              255
tcc atg tat ctc aaa cct gct tct ago agt tca ctc acc cag gag aaa      816
Ser Met Tyr Leu Lys Pro Ala Ser Ser Ser Ser Leu Thr Gln Glu Lys
      260              265              270
gta tcc tca gta ttt tat acc act gtg att ctc atg ttg aat ccc ttg      864
Val Ser Ser Val Phe Tyr Thr Thr Val Ile Leu Met Leu Asn Pro Leu
      275              280              285
ata tat agt ctg agg aac aat gaa gta aga aat gct ctg atg aaa ctt      912
Ile Tyr Ser Leu Arg Asn Asn Glu Val Arg Asn Ala Leu Met Lys Leu
      290              295              300
tta aga aga aaa ata tct tta tct cca gga taa      945
Leu Arg Arg Lys Ile Ser Leu Ser Pro Gly
      305              310
<210> 18
<211> 314
<212> PRT
<213> Homo Sapiens

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<400> 18

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Met Gly Val Lys Asn His Ser Thr Val Thr Glu Phe Leu Leu Ser Gly
1      5      10      15

Leu Thr Glu Gln Ala Glu Leu Gln Leu Pro Leu Phe Cys Leu Phe Leu
20      25      30

Gly Ile Tyr Thr Val Thr Val Val Gly Asn Leu Ser Met Ile Ser Ile
35      40      45

Ile Arg Leu Asn Arg Gln Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
50      55      60

Ser Leu Ser Phe Leu Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys
65      70      75      80

Met Leu Ser Gly Phe Leu Cys Arg Asp Arg Ser Ile Ser Tyr Ser Gly
85      90      95

Cys Met Ile Gln Leu Phe Phe Phe Cys Val Cys Val Ile Ser Glu Cys
100     105     110

Tyr Met Leu Ala Ala Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Ser
115     120     125

Pro Leu Leu Tyr Arg Val Ile Met Ser Pro Arg Val Cys Ser Leu Leu
130     135     140

Val Ala Ala Val Phe Ser Val Gly Phe Thr Asp Ala Val Ile His Gly
145     150     155     160

Gly Cys Ile Leu Arg Leu Ser Phe Cys Gly Ser Asn Ile Ile Lys His
165     170     175

Tyr Phe Cys Asp Ile Val Pro Leu Ile Lys Leu Ser Cys Ser Ser Thr
180     185     190

Tyr Ile Asp Glu Leu Leu Ile Phe Val Ile Gly Gly Phe Asn Met Val
195     200     205

Ala Thr Ser Leu Thr Ile Ile Ile Ser Tyr Ala Phe Ile Leu Thr Ser
210     215     220

Ile Leu Arg Ile His Ser Lys Lys Gly Arg Cys Lys Ala Phe Ser Thr
225     230     235     240

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Cys Ser Ser His Leu Thr Ala Val Leu Met Phe Tyr Gly Ser Leu Met
245 250 255

Ser Met Tyr Leu Lys Pro Ala Ser Ser Ser Ser Leu Thr Gln Glu Lys
260 265 270

Val Ser Ser Val Phe Tyr Thr Thr Val Ile Leu Met Leu Asn Pro Leu
275 280 285

Ile Tyr Ser Leu Arg Asn Asn Glu Val Arg Asn Ala Leu Met Lys Leu
290 295 300

Leu Arg Arg Lys Ile Ser Leu Ser Pro Gly
305 310

<210> 19
<211> 936
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(933)
<223>

<400> 19
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Met Ser Asn Ala Thr Leu Leu Thr Ala Phe Ile Leu Thr Gly Leu Pro
1 5 10 15
cat gcc cca ggg ctg gac gcc ccc ctc ttt gga atc ttc ctg gtg gtt 96
His Ala Pro Gly Leu Asp Ala Pro Leu Phe Gly Ile Phe Leu Val Val
20 25 30
tac gtg ctc act gtg ctg ggg aac ctc ctc atc ctg ctg gtg atc agg 144
Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
35 40 45
gtg gat tct cac ctc cac acc ccc atg tac tac ttc ctc acc aac ctg 192
Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu
50 55 60
tcc ttc att gac atg tgg ttc tcc act gtc acg gtg ccc aaa atg ctg 240
Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu
65 70 75 80
atg acc ttg gtg tcc cca agc ggc agg act atc tcc ttc cac agc tgc 288
Met Thr Leu Val Ser Pro Ser Gly Arg Thr Ile Ser Phe His Ser Cys
85 90 95
gtg gct cag ctc tat ttt ttc cac ttc ctg ggg agc acc gag tgt ttc 336
Val Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Cys Phe
100 105 110

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ctc tac aca gtc atg tcc tat gat cgc tac ctg gcc atc agt tac cgg 384
 Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
 115 120 125

ctc agg tac acc aac atg atg act ggg cgc tgg tgt gcc ctc ctg gcc 432
 Leu Arg Tyr Thr Asn Met Met Thr Gly Arg Ser Cys Ala Leu Leu Ala
 130 135 140

acc gcc act tgg ctc agt ggc tct ctg cac tct gct gtc cag acc ata 480
 Thr Gly Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Thr Ile
 145 150 155 160

ttg act ttc cat ttg ccc tac tgt gga ccc aac cag atc cag cac tac 528
 Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Gln Ile Gln His Tyr
 165 170 175

ttc tgt gac gca cgg ccc atc ctg aaa ctg gcc tgt gca gac acc tca 576
 Phe Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
 180 185 190

gcc aac gag atg gtc atc ttt gtg act att ggg cta gtg gcc tgg ggc 624
 Ala Asn Glu Met Val Ile Phe Val Asn Ile Gly Leu Val Ala Ser Gly
 195 200 205

tgc ttt gtc ctg ata gtg ctg tcc tat gtg tcc atc gtc tgt tcc atc 672
 Cys Phe Val Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
 210 215 220

ctg agg atc cgc acc tca gag ggg agg cac aga gcc ttt cag acc tgt 720
 Leu Arg Ile Arg Thr Ser Glu Gly Arg His Arg Ala Phe Gln Thr Cys
 225 230 235 240

gcc tcc cac tgt atc gtg gtc ctt tgc ttc ttt gcc cct ggt ctt ttc 768
 Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Gly Pro Gly Leu Phe
 245 250 255

att tac ctg agg cca gcc tcc agg gac gcc ttg cat ggg gtt gtg gcc 816
 Ile Tyr Leu Arg Pro Gly Ser Arg Asp Ala Leu His Gly Val Val Ala
 260 265 270

gtt ttc tac acc acg ctg act cct ctt ttc aac cct gtt gtg tac acc 864
 Val Phe Tyr Thr Thr Leu Thr Pro Leu Phe Asn Pro Val Val Tyr Thr
 275 280 285

ctg aga aac aag gag gta aag aaa gct ctg ttg aag ctg aaa aat ggg 912
 Leu Arg Asn Lys Glu Val Lys Lys Ala Leu Leu Lys Leu Lys Asn Gly
 290 295 300

tca gta ttt gct cag ggt gaa tag 936
 Ser Val Phe Ala Gln Gly Glu
 305 310

<210> 20
 <211> 311
 <212> PRT
 <213> Homo Sapiens

<400> 20
 Met Ser Asn Ala Thr Leu Leu Thr Ala Phe Ile Leu Thr Gly Leu Pro

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1           5           10           15
His Ala Pro Gly Leu Asp Ala Pro Leu Phe Gly Ile Phe Leu Val Val
20           25           30
Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
35           40           45
Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu
50           55           60
Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu
65           70           75           80
Met Thr Leu Val Ser Pro Ser Gly Arg Thr Ile Ser Phe His Ser Cys
85           90           95
Val Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Cys Phe
100          105          110
Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
115          120          125
Leu Arg Tyr Thr Asn Met Met Thr Gly Arg Ser Cys Ala Leu Leu Ala
130          135          140
Thr Gly Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Thr Ile
145          150          155          160
Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Gln Ile Gln His Tyr
165          170          175
Phe Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
180          185          190
Ala Asn Glu Met Val Ile Phe Val Asn Ile Gly Leu Val Ala Ser Gly
195          200          205
Cys Phe Val Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
210          215          220
Leu Arg Ile Arg Thr Ser Glu Gly Arg His Arg Ala Phe Gln Thr Cys
225          230          235          240
Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Gly Pro Gly Leu Phe
245          250          255

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Ile Tyr Leu Arg Pro Gly Ser Arg Asp Ala Leu His Gly Val Val Ala
260 265 270

Val Phe Tyr Thr Thr Leu Thr Pro Leu Phe Asn Pro Val Val Tyr Thr
275 280 285

Leu Arg Asn Lys Glu Val Lys Lys Ala Leu Leu Lys Leu Lys Asn Gly
290 295 300

Ser Val Phe Ala Gln Gly Glu
305 310

<210> 21
<211> 972
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(969)
<223>

<400> 31
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Met Asn Pro Glu Asn Trp Thr Gln Val Thr Ser Phe Val Leu Leu Gly
1 5 10 15
ttc ccc agt agc cac ctc ata cag ttc ctg gtg ttc ctg ggg tta atg 96
Phe Pro Ser Ser His Leu Ile Gln Phe Leu Val Phe Leu Gly Leu Met
20 25 30
gtg acc tac att gta aca gcc aca ggc aag ctg cta att att gtg ctc 144
Val Thr Tyr Ile Val Thr Ala Thr Gly Lys Leu Leu Ile Ile Val Leu
35 40 45
agc tgg ata gac caa cgc ctg cac ata cag atg tac ttc ttc ctg cgg 192
Ser Trp Ile Asp Gln Arg Leu His Ile Gln Met Tyr Phe Phe Leu Arg
50 55 60
aat ttc tcc ttc ctg gag ctg ttg ctg gta act gtt gtg gtt ccc aag 240
Asn Phe Ser Phe Leu Glu Leu Leu Val Thr Val Val Val Pro Lys
65 70 75 80
atg ctt gtc gtc atc ctc aag ggg gat cac acc atc tca ttt gtc agc 288
Met Leu Val Val Ile Leu Thr Gly Asp His Thr Ile Ser Phe Val Ser
85 90 95
tgc atc atc cag tcc tac ctc tac ttc ttt cta ggc acc act gac ttc 336
Cys Ile Ile Gln Ser Tyr Leu Tyr Phe Phe Leu Gly Thr Thr Asp Phe
100 105 110
ttc ctc ttg gcc gtc atg tct ctg gat cgt tac ctg gca atc tgc cga 384
Phe Leu Leu Ala Val Met Ser Leu Asp Arg Tyr Leu Ala Ile Cys Arg
115 120 125

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cca ctc cgc tat gag acc ctg atg aat ggc cat gtc tgt tcc caa cta      432
Pro Leu Arg Tyr Glu Thr Leu Met Asn Gly His Val Cys Ser Gln Leu
130                      135                      140

gtg ctg gcc tcc tgg cta gct gga ttc ctc tgg gtc ctt tgc ccc act      480
Val Leu Ala Ser Trp Leu Ala Gly Phe Leu Trp Val Leu Cys Pro Thr
145                      150                      155                      160

gtc ctc atg gcc agc ctg cct ttc tgt ggc ccc aat ggt att gac cac      528
Val Leu Met Ala Ser Leu Pro Phe Cys Gly Pro Asn Gly Ile Asp His
165                      170                      175

ttc ttt cgt gac agt tgg ccc ttg ctc agg ctt tct tgt ggg gac acc      576
Phe Phe Arg Asp Ser Trp Pro Leu Leu Arg Leu Ser Cys Gly Asp Thr
180                      185                      190

cac ctg ctg aaa ctg gtg gct ttc atg ctc tct acg ttg gtg tca ctg      624
His Leu Leu Lys Leu Val Ala Phe Met Leu Ser Thr Leu Val Leu Leu
195                      200                      205

ggc tca ctg gct ctg acc tca gtt tcc tat gcc tgc att ctt gcc act      672
Gly Ser Leu Ala Leu Thr Ser Val Ser Tyr Ala Cys Ile Leu Ala Thr
210                      215                      220

gtt ctc agg gcc cct aca gct gct gag cga agg aaa gcg ttt tcc act      720
Val Leu Arg Ala Pro Thr Ala Ala Glu Arg Arg Lys Ala Phe Ser Thr
225                      230                      235                      240

tgc gcc tgg cat ctt aca gtg gtg gtc atc atc tat gcc agt tcc atc      768
Cys Ala Ser His Leu Thr Val Val Val Ile Ile Tyr Gly Ser Ser Ile
245                      250                      255

ttt ctc tac att cgt atg tca gag gct cag tcc aca ctg ctc aac aaa      816
Phe Leu Tyr Ile Arg Met Ser Glu Ala Gln Ser Lys Leu Leu Asn Lys
260                      265                      270

ggt gcc tcc gtc ctg ago tgc atc atc aca ccc ctc ttg aac cca ttc      864
Gly Ala Ser Val Leu Ser Cys Ile Ile Thr Pro Leu Leu Asn Pro Phe
275                      280                      285

atc ttc act ctc cgc aat gac aag gtg cag caa gca ctg aga gaa gcc      912
Ile Phe Thr Leu Arg Asn Asp Lys Val Gln Gln Ala Leu Arg Glu Ala
290                      295                      300

ttg ggg tgg ccc agg ctc act gct gtg atg aaa ctg agg gtc aca agt      960
Leu Gly Trp Pro Arg Leu Thr Ala Val Met Lys Leu Arg Val Thr Ser
305                      310                      315                      320

caa agg aaa tga
Gln Arg Lys
972

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<210> 22
<211> 323
<212> PRT
<213> Homo Sapiens

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<400> 22

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Met Asn Pro Glu Asn Trp Thr Gln Val Thr Ser Phe Val Leu Leu Gly
1      5      10      15

Phe Pro Ser Ser His Leu Ile Gln Phe Leu Val Phe Leu Gly Leu Met
20      25      30

Val Thr Tyr Ile Val Thr Ala Thr Gly Lys Leu Leu Ile Ile Val Leu
35      40      45

Ser Trp Ile Asp Gln Arg Leu His Ile Gln Met Tyr Phe Phe Leu Arg
50      55      60

Asn Phe Ser Phe Leu Glu Leu Leu Val Thr Val Val Val Pro Lys
65      70      75      80

Met Leu Val Val Ile Leu Thr Gly Asp His Thr Ile Ser Phe Val Ser
85      90      95

Cys Ile Ile Gln Ser Tyr Leu Tyr Phe Phe Leu Gly Thr Thr Asp Phe
100     105     110

Phe Leu Leu Ala Val Met Ser Leu Asp Arg Tyr Leu Ala Ile Cys Arg
115     120     125

Pro Leu Arg Tyr Glu Thr Leu Met Asn Gly His Val Cys Ser Gln Leu
130     135     140

Val Leu Ala Ser Trp Leu Ala Gly Phe Leu Trp Val Leu Cys Pro Thr
145     150     155     160

Val Leu Met Ala Ser Leu Pro Phe Cys Gly Pro Asn Gly Ile Asp His
165     170     175

Phe Phe Arg Asp Ser Trp Pro Leu Leu Arg Leu Ser Cys Gly Asp Thr
180     185     190

His Leu Leu Lys Leu Val Ala Phe Met Leu Ser Thr Leu Val Leu Leu
195     200     205

Gly Ser Leu Ala Leu Thr Ser Val Ser Tyr Ala Cys Ile Leu Ala Thr
210     215     220

Val Leu Arg Ala Pro Thr Ala Ala Glu Arg Arg Lys Ala Phe Ser Thr
225     230     235     240

Cys Ala Ser His Leu Thr Val Val Val Ile Ile Tyr Gly Ser Ser Ile

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                245                250                255
Phe Leu Tyr Ile Arg Met Ser Glu Ala Gln Ser Lys Leu Leu Asn Lys
260                265                270

Gly Ala Ser Val Leu Ser Cys Ile Ile Thr Pro Leu Leu Asn Pro Phe
275                280                285

Ile Phe Thr Leu Arg Asn Asp Lys Val Gln Gln Ala Leu Arg Glu Ala
290                295                300

Leu Gly Trp Pro Arg Leu Thr Ala Val Met Lys Leu Arg Val Thr Ser
305                310                315                320

Gln Arg Lys

<210> 23
<211> 957
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(954)
<223>

<400> 23
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Met Asn Pro Ala Asn His Ser Gln Val Ala Gly Phe Val Leu Leu Gly
1          5          10          15

ctc tct cag gtt tgg gag ctt cgg ttt gtt ttc ttc act gtt ttc tct      96
Leu Ser Gln Val Trp Glu Leu Arg Phe Val Phe Phe Thr Val Phe Ser
20          25          30

gct gtg tat ttt atg act gta gtg gga aac ctt ctt att gtg gtc ata      144
Ala Val Tyr Phe Met Thr Val Val Gly Asn Leu Leu Ile Val Val Ile
35          40          45

gtg acc tcc gac cca cac ctg cac aca acc atg tat ttt ctc ttg ggc      192
Val Thr Ser Asp Pro His Leu His Thr Thr Met Tyr Phe Leu Leu Gly
50          55          60

aat ctt tct ttc ctg gac ttt tgc tac tct tcc atc aca gca cct agg      240
Asn Leu Ser Phe Leu Asp Phe Cys Tyr Ser Ser Ile Thr Ala Pro Arg
65          70          75          80

atg ctg gtt gac ttg ctc tca ggc aac cct aac att tcc ttt ggt gga      288
Met Leu Val Asp Leu Leu Ser Gly Asn Pro Thr Ile Ser Phe Gly Gly
85          90          95

tgc ctg act caa ctc ttc ttc ttc cac ttc att gga ggc atc aag atc      336
Cys Leu Thr Gln Leu Phe Phe Phe His Phe Ile Gly Gly Ile Lys Ile

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100	105	110	
ttc ctg ctg act gtc atg ggc tat gac cgc tac att gcc att tcc cag			384
Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Ser Gln			
115	120	125	
ccc ctg cac tac acg ctc att atg aat cag act gtc tgt gca ctc ctt			432
Pro Leu His Tyr Thr Leu Ile Met Asn Gln Thr Val Cys Ala Leu Leu			
130	135	140	
atg gca gcc tcc tgg gtg ggg ggc ttc atc cac tcc ata gta cag att			480
Met Ala Ala Ser Trp Val Gly Gly Phe Ile His Ser Ile Val Gln Ile			
145	150	155	160
gca ttg act atc cag ctg cca ttc tgt ggg cct gac aag ctg gac aac			528
Ala Leu Thr Ile Gln Leu Pro Phe Cys Gly Pro Asp Lys Leu Asp Asn			
165	170	175	
ttt tat tgt gat ggc cct cag ctg atc aaa ttg gcc tgc aca gat acc			576
Phe Tyr Cys Asp Val Pro Gln Leu Ile Lys Leu Ala Cys Thr Asp Thr			
180	185	190	
ttt gtc tta gag ctt tta atg gtg tct aac aat ggc ctg gtg acc ctg			624
Phe Val Leu Glu Leu Leu Met Val Ser Asn Asn Gly Leu Val Thr Leu			
195	200	205	
atg tgt ttt ctg gtg ctt ctg gga tgg tac aca gca ctg cta gtc atg			672
Met Cys Phe Leu Val Leu Leu Gly Ser Tyr Thr Ala Leu Leu Val Met			
210	215	220	
ctc gga agc cgc tca cgg gag ggc cgc agc aag gcc ctg tct acc tgt			720
Leu Arg Ser His Ser Arg Glu Gly Arg Ser Lys Ala Leu Ser Thr Cys			
225	230	235	240
gcc tct cac att gct gtg gtg acc tta atc ttt gtg cct tgc atc tac			768
Ala Ser His Ile Ala Val Val Thr Leu Ile Phe Val Pro Cys Ile Tyr			
245	250	255	
gtc tat aca egg cct ttt cgg aca ttc ccc atg gac aag gcc gtc tct			816
Val Tyr Thr Arg Pro Phe Arg Thr Phe Pro Met Asp Lys Ala Val Ser			
260	265	270	
gtg cta tac aca att gtc acc ccc atg ctg aat cct gcc atc tat acc			864
Val Leu Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Ala Ile Tyr Thr			
275	280	285	
ctg aga aac aag gaa gtg atc atg gcc atg aag aag ctg tgg agg agg			912
Leu Arg Asn Lys Glu Val Ile Met Ala Met Lys Lys Leu Trp Arg Arg			
290	295	300	
aaa aag gac cct att ggt ccc ctg gag cac aga ccc tta cat tag			957
Lys Lys Asp Pro Ile Gly Pro Leu Glu His Arg Pro Leu His			
305	310	315	
<210> 24			
<211> 318			
<212> PRT			
<213> Homo Sapiens			
<400> 24			

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Met Asn Pro Ala Asn His Ser Gln Val Ala Gly Phe Val Leu Leu Gly
1      5      10      15

Leu Ser Gln Val Trp Glu Leu Arg Phe Val Phe Phe Thr Val Phe Ser
20      25      30

Ala Val Tyr Phe Met Thr Val Val Gly Asn Leu Leu Ile Val Val Ile
35      40      45

Val Thr Ser Asp Pro His Leu His Thr Thr Met Tyr Phe Leu Leu Gly
50      55      60

Asn Leu Ser Phe Leu Asp Phe Cys Tyr Ser Ser Ile Thr Ala Pro Arg
65      70      75      80

Met Leu Val Asp Leu Leu Ser Gly Asn Pro Thr Ile Ser Phe Gly Gly
85      90      95

Cys Leu Thr Gln Leu Phe Phe Phe His Phe Ile Gly Gly Ile Lys Ile
100     105     110

Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Ser Gln
115     120     125

Pro Leu His Tyr Thr Leu Ile Met Asn Gln Thr Val Cys Ala Leu Leu
130     135     140

Met Ala Ala Ser Trp Val Gly Gly Phe Ile His Ser Ile Val Gln Ile
145     150     155     160

Ala Leu Thr Ile Gln Leu Pro Phe Cys Gly Pro Asp Lys Leu Asp Asn
165     170     175

Phe Tyr Cys Asp Val Pro Gln Leu Ile Lys Leu Ala Cys Thr Asp Thr
180     185     190

Phe Val Leu Glu Leu Leu Met Val Ser Asn Asn Gly Leu Val Thr Leu
195     200     205

Met Cys Phe Leu Val Leu Leu Gly Ser Tyr Thr Ala Leu Leu Val Met
210     215     220

Leu Arg Ser His Ser Arg Glu Gly Arg Ser Lys Ala Leu Ser Thr Cys
225     230     235     240

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Ala Ser His Ile Ala Val Val Thr Leu Ile Phe Val Pro Cys Ile Tyr
245 250 255

Val Tyr Thr Arg Pro Phe Arg Thr Phe Pro Met Asp Lys Ala Val Ser
260 265 270

Val Leu Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Ala Ile Tyr Thr
275 280 285

Leu Arg Asn Lys Glu Val Ile Met Ala Met Lys Lys Leu Trp Arg Arg
290 295 300

Lys Lys Asp Pro Ile Gly Pro Leu Glu His Arg Pro Leu His
305 310 315

<210> 25
<211> 999
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(996)
<223>

<400> 25
atg tta gag ggt gtt gag cat ctc ctt ctg cta ctt ctt ttg aca gat 48
Met Leu Glu Gly Val Glu His Leu Leu Leu Leu Leu Thr Asp
1 5 10 15
gtg aac agc aag gaa ctg caa agt gga aac cag act tct gtg tct cac 96
Val Asn Ser Lys Glu Leu Gln Ser Gly Asn Gln Thr Ser Val Ser His
20 25 30
ttc att ttg gtg ggc ctg cac cac cca cca cag ctg gga gcg cca ctc 144
Phe Ile Leu Val Gly Leu His His Pro Pro Gln Leu Gly Ala Pro Leu
35 40 45
ttc tta gct ttc ctt gtc atc tat ctc ctc act gtt tct gga aat ggg 192
Phe Leu Ala Phe Leu Val Ile Tyr Leu Leu Thr Val Ser Gly Asn Gly
50 55 60
ctc atc atc ctc act gtc tta gtg gac atc cgg ctc cat cgt ccc atg 240
Leu Ile Ile Leu Thr Val Leu Val Asp Ile Arg Leu His Arg Pro Met
65 70 75 80
tgc ttg ttc ctg tgt cac ctc tcc ttc ttg gac atg acc att tct tgt 288
Cys Leu Phe Leu Cys His Leu Ser Phe Leu Asp Met Thr Ile Ser Cys
85 90 95
gct att gtc ccc aag atg ctg gct ggc ttt ctc ttg ggt agt agg att 336
Ala Ile Val Pro Lys Met Leu Ala Gly Phe Leu Leu Gly Ser Arg Ile
100 105 110
atc tcc ttt ggg ggc tgt gta atc caa cta ttt tct ttc cat ttc ctg 384

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Ile Ser Phe Gly Gly Cys Val Ile Gln Leu Phe Ser Phe His Phe Leu
115 120 125
ggc tgt act gag tgc ttc ctt tac aca ctc atg gct tat gac cgt ttc 432
Gly Cys Thr Glu Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Phe
130 135 140
ctt gcc att tgt aag ccc tta cac tat gct acc atc atg acc cac aga 480
Leu Ala Ile Cys Lys Pro Leu His Tyr Ala Thr Ile Met Thr His Arg
145 150 155 160
gtc tgt aac tcc ctg gct tta ggc acc tgg ctg gga ggg act atc cat 528
Val Cys Asn Ser Leu Ala Leu Gly Thr Trp Leu Gly Gly Thr His
165 170 175
tca ctt ttc caa aca agt ttt gta ttc cgg ctg ccc ttc tgt ggc ccc 576
Ser Leu Phe Gln Thr Ser Phe Val Phe Arg Leu Pro Phe Cys Gly Pro
180 185 190
aat cgg gtc gac tac atc ttc tgt gac att oct gcc atg ctg cgt cta 624
Asn Arg Val Asp Tyr Ile Phe Cys Asp Ile Pro Ala Met Leu Arg Leu
195 200 205
gcc tgc gcc gat acg gcc atc aac gag ctg gtc acc ttt gca gac att 672
Ala Cys Ala Asp Thr Ala Ile Asn Glu Leu Val Thr Phe Ala Asp Ile
210 215 220
ggc ttc ctg gcc ctc acc tgc ttc atg ctc atc ctc act tcc tat ggc 720
Gly Phe Leu Ala Leu Thr Cys Phe Met Leu Ile Leu Thr Ser Tyr Gly
225 230 235 240
tat att gta gct gcc atc ctg cga att cgg tca gca gat ggg cgc cgc 768
Tyr Ile Val Ala Ala Ile Leu Arg Ile Pro Ser Ala Asp Gly Arg Arg
245 250 255
aat gcc ttc tcc act tgt gct gcc cac ctc act gtt gtc att gtt tac 816
Asn Ala Phe Ser Thr Cys Ala Ala His Leu Thr Val Val Ile Val Tyr
260 265 270
tat gtg ccc tgc acc ttc att tac ctg cgg cct tgt tca cag gag ccc 864
Tyr Val Pro Cys Thr Phe Ile Tyr Leu Arg Pro Cys Ser Gln Glu Pro
275 280 285
ctg gat ggg gtg gta gct gtc ttt tac act gtc atc act ccc ttg ctt 912
Leu Asp Gly Val Val Ala Val Phe Tyr Thr Val Ile Thr Pro Leu Leu
290 295 300
aac tcc atc atc tac aca ctg tgc aac aca gaa atg aag gca gca tta 960
Asn Ser Ile Ile Tyr Thr Leu Cys Asn Lys Glu Met Lys Ala Ala Leu
305 310 315 320
cag agg cta ggg ggc cac aag gaa gtg cag cct cac tga 999
Gln Arg Leu Gly Gly His Lys Glu Val Gln Pro His
325 330

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<210> 26
<211> 332
<212> PRT
<213> Homo Sapiens

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<400> 26

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Met Leu Glu Gly Val Glu His Leu Leu Leu Leu Leu Thr Asp
1      5      10      15

Val Asn Ser Lys Glu Leu Gln Ser Gly Asn Gln Thr Ser Val Ser His
20      25      30

Phe Ile Leu Val Gly Leu His His Pro Pro Gln Leu Gly Ala Pro Leu
35      40      45

Phe Leu Ala Phe Leu Val Ile Tyr Leu Leu Thr Val Ser Gly Asn Gly
50      55      60

Leu Ile Ile Leu Thr Val Leu Val Asp Ile Arg Leu His Arg Pro Met
65      70      75      80

Cys Leu Phe Leu Cys His Leu Ser Phe Leu Asp Met Thr Ile Ser Cys
85      90      95

Ala Ile Val Pro Lys Met Leu Ala Gly Phe Leu Leu Gly Ser Arg Ile
100     105     110

Ile Ser Phe Gly Gly Cys Val Ile Gln Leu Phe Ser Phe His Phe Leu
115     120     125

Gly Cys Thr Glu Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Phe
130     135     140

Leu Ala Ile Cys Lys Pro Leu His Tyr Ala Thr Ile Met Thr His Arg
145     150     155     160

Val Cys Asn Ser Leu Ala Leu Gly Thr Trp Leu Gly Gly Thr Ile His
165     170     175

Ser Leu Phe Gln Thr Ser Phe Val Phe Arg Leu Pro Phe Cys Gly Pro
180     185     190

Asn Arg Val Asp Tyr Ile Phe Cys Asp Ile Pro Ala Met Leu Arg Leu
195     200     205

Ala Cys Ala Asp Thr Ala Ile Asn Glu Leu Val Thr Phe Ala Asp Ile
210     215     220

Gly Phe Leu Ala Leu Thr Cys Phe Met Leu Ile Leu Thr Ser Tyr Gly
225     230     235     240

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Tyr Ile Val Ala Ala Ile Leu Arg Ile Pro Ser Ala Asp Gly Arg Arg
245 250 255

Asn Ala Phe Ser Thr Cys Ala Ala His Leu Thr Val Val Ile Val Tyr
260 265 270

Tyr Val Pro Cys Thr Phe Ile Tyr Leu Arg Pro Cys Ser Gln Glu Pro
275 280 285

Leu Asp Gly Val Val Ala Val Phe Tyr Thr Val Ile Thr Pro Leu Leu
290 295 300

Asn Ser Ile Ile Tyr Thr Leu Cys Asn Lys Glu Met Lys Ala Ala Leu
305 310 315 320

Gln Arg Leu Gly Gly His Lys Glu Val Gln Pro His
325 330

<210> 27
<211> 960
<212> DNA
<213> Homo Sapiens

<220>
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<222> (1)..(957)
<223>

<400> 27
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Met Pro Val Gly Lys Leu Val Phe Asn Gln Ser Glu Pro Thr Glu Phe
1 5 10 15

gtg ttc cgt gcg ttc acc aca gcc act gaa ttc cag gtt ctt ctc ttc 96
Val Phe Arg Ala Phe Thr Thr Ala Thr Glu Phe Gln Val Leu Leu Phe
20 25 30

ctt ctc ttc ctc ctc ctc tac ttg atg atc ctc tgt ggc aac aca gcc 144
Leu Leu Phe Leu Leu Leu Tyr Leu Met Ile Leu Cys Gly Asn Thr Ala
35 40 45

atc atc tgg gtg gtg tgc aca cac agc acc ctc cgc acc cgg atg tat 192
Ile Ile Trp Val Val Cys Thr His Ser Thr Leu Arg Thr Pro Met Tyr
50 55 60

ttc ttc ctg tcc aac ctg tot ttc ctg gaa ctc tgc tac acc acc gtg 240
Phe Phe Leu Ser Asn Leu Ser Phe Leu Glu Leu Cys Tyr Thr Thr Val
65 70 75 80

gta gta ccc ttg atg ctt tcc aac att ttg ggg gcc cag aag ccc att 288
Val Val Pro Leu Met Leu Ser Asn Ile Leu Gly Ala Gln Lys Pro Ile
85 90 95

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tgg ttg gct gga tgt ggg gcc caa atg ttc ttc ttt gtc acc ctc ggc      336
Ser Leu Ala Gly Cys Gly Ala Gln Met Phe Phe Phe Val Thr Leu Gly
      100      105      110

agc acg gac tgt ttc ctc ttg gcg atc atg gcc tat gac cgc tat gtg      384
Ser Thr Asp Cys Phe Leu Leu Ala Ile Met Ala Tyr Asp Arg Tyr Val
      115      120      125

gct atc tgc cac cgg ctg cac tac acc ctc atc atg acc cgc gag ctg      432
Ala Ile Cys His Pro Leu His Tyr Thr Leu Ile Met Thr Arg Glu Leu
      130      135      140

tgc acg cag atg ctg ggt ggg gcc ctg ggc ctg gcc ctc ttc ccc tcc      480
Cys Thr Gln Met Leu Gly Gly Ala Leu Gly Leu Ala Leu Phe Pro Ser
      145      150      155      160

ctg cag ctc acc gcc tta atc ttc acc ctg ccc ttt tgc ggc cac cac      528
Leu Glu Leu Thr Ala Leu Ile Phe Thr Leu Pro Phe Cys Gly His His
      165      170      175

cag gaa atc aac cac ttc ctc tgc gat ctg cct ccc gtc ctg cgc ctg      576
Gln Glu Ile Asn His Phe Leu Cys Asp Val Pro Pro Val Leu Arg Leu
      180      185      190

gcc tgc gct gac atc cgc gtg cac cag gct gtc ctc tat gtc gtg agc      624
Ala Cys Ala Asp Ile Arg Val His Gln Ala Val Leu Tyr Val Val Ser
      195      200      205

atc ctc gtg ctg acc atc ccc ttc ctg ctc atc tgc gtc tcc tac gtg      672
Ile Leu Val Leu Thr Ile Pro Phe Leu Leu Ile Cys Val Ser Tyr Val
      210      215      220

ttc atc acc tgt gcc atc ctg agc atc cgt tct gcc gag ggc cgc cgc      720
Phe Ile Thr Cys Ala Ile Leu Ser Ile Arg Ser Ala Glu Gly Arg Arg
      225      230      235

cgg gcc ttc tcc acc tgc tcc ttc cac ctc acc gtg gtc ctg ctg cag      768
Arg Ala Phe Ser Thr Cys Ser Phe His Leu Thr Val Val Leu Leu Gln
      245      250      255

tat ggc tgc tgc agc ctc gtg tac ctg cgt cct cgg tcc agc acc tca      816
Tyr Gly Cys Cys Ser Leu Val Tyr Leu Arg Pro Arg Ser Thr Ser
      260      265      270

gag gat gag gac agc caa atc gcg ttg gtc tac acc ttt gtc acc ccc      864
Glu Asp Glu Asp Ser Gln Ile Ala Leu Val Tyr Thr Phe Val Thr Pro
      275      280      285

tta ctc aac cct ttg ctt tac agc ctt agg aac aag gat gtc aaa ggt      912
Leu Leu Asn Pro Leu Leu Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly
      290      295      300

gct ctg agg agt gcc att atc cgt aaa gca gcc tct gac gcc aac tga      960
Ala Leu Arg Ser Ala Ile Ile Arg Lys Ala Ala Ser Asp Ala Asn
      305      310      315

<210> 28
<211> 319
<212> PRT
<213> Homo Sapiens

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<400> 28

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Met Pro Val Gly Lys Leu Val Phe Asn Gln Ser Glu Pro Thr Glu Phe
1      5      10      15

Val Phe Arg Ala Phe Thr Thr Ala Thr Glu Phe Gln Val Leu Leu Phe
20      25      30

Leu Leu Phe Leu Leu Leu Tyr Leu Met Ile Leu Cys Gly Asn Thr Ala
35      40      45

Ile Ile Trp Val Val Cys Thr His Ser Thr Leu Arg Thr Pro Met Tyr
50      55      60

Phe Phe Leu Ser Asn Leu Ser Phe Leu Glu Leu Cys Tyr Thr Thr Val
65      70      75      80

Val Val Pro Leu Met Leu Ser Asn Ile Leu Gly Ala Gln Lys Pro Ile
85      90      95

Ser Leu Ala Gly Cys Gly Ala Gln Met Phe Phe Phe Val Thr Leu Gly
100     105     110

Ser Thr Asp Cys Phe Leu Leu Ala Ile Met Ala Tyr Asp Arg Tyr Val
115     120     125

Ala Ile Cys His Pro Leu His Tyr Thr Leu Ile Met Thr Arg Glu Leu
130     135     140

Cys Thr Gln Met Leu Gly Gly Ala Leu Gly Leu Ala Leu Phe Pro Ser
145     150     155     160

Leu Gln Leu Thr Ala Leu Ile Phe Thr Leu Pro Phe Cys Gly His His
165     170     175

Gln Glu Ile Asn His Phe Leu Cys Asp Val Pro Pro Val Leu Arg Leu
180     185     190

Ala Cys Ala Asp Ile Arg Val His Gln Ala Val Leu Tyr Val Val Ser
195     200     205

Ile Leu Val Leu Thr Ile Pro Phe Leu Leu Ile Cys Val Ser Tyr Val
210     215     220

Phe Ile Thr Cys Ala Ile Leu Ser Ile Arg Ser Ala Glu Gly Arg Arg
225     230     235     240

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Arg Ala Phe Ser Thr Cys Ser Phe His Leu Thr Val Val Leu Leu Gln
245 250 255

Tyr Gly Cys Cys Ser Leu Val Tyr Leu Arg Pro Arg Ser Ser Thr Ser
260 265 270

Glu Asp Glu Asp Ser Gln Ile Ala Leu Val Tyr Thr Phe Val Thr Pro
275 280 285

Leu Leu Asn Pro Leu Leu Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly
290 295 300

Ala Leu Arg Ser Ala Ile Ile Arg Lys Ala Ala Ser Asp Ala Asn
305 310 315

<210> 29
<211> 978
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(975)
<223>

<400> 29
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Met Lys Thr Leu Cys Ser Phe Leu Gln Ile Ser Arg Asn Met His Gln
1 5 10 15
gaa aac caa acc acc atc act gaa ttc att ctc ctg gga ctc tcc aac 96
Glu Asn Gln Thr Thr Ile Thr Glu Phe Ile Leu Leu Gly Leu Ser Asn
20 25 30
cag gct gaa cat caa aac ctc ctc ttt gtg ctt ttc ctg agt atg tat 144
Gln Ala Glu His Gln Asn Leu Leu Phe Val Leu Phe Leu Ser Met Tyr
35 40 45
gtg gtc act gtg gtt ggg aac ggg ctc atc att gtg gct atc agc ttg 192
Val Val Thr Val Val Gly Asn Gly Leu Ile Ile Val Ala Ile Ser Leu
50 55 60
gat ata tac ctt cac acc ccc atg tat ctc ttc ctt gcc tac cta tcc 240
Asp Ile Tyr Leu His Thr Pro Met Tyr Leu Phe Leu Ala Tyr Leu Ser
65 70 75 80
ttt gct gat att tcc tcc att tcc aac tca gtc ccc aaa atg ctg gtg 288
Phe Ala Asp Ile Ser Ser Ile Ser Asn Ser Val Pro Lys Met Leu Val
85 90 95
aat att caa acc aac agc caa tcc atc tct tat gag agc tgc atc aca 336
Asn Ile Gln Thr Asn Ser Gln Ser Ile Ser Tyr Glu Ser Cys Ile Thr
100 105 110

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cag atg tac ttt tct att gtg ttt gtc gtc act gac aat ttg ctt ttg      384
Gln Met Tyr Phe Ser Ile Val Phe Val Val Thr Asp Asn Leu Leu Leu
      115                      120                      125

ggg acc atg gcc ttc gac cac ttt gtg gcg atc tgc cac cct ctg aac      432
Gly Thr Met Ala Phe Asp His Phe Val Ala Ile Cys His Pro Leu Asn
      130                      135                      140

tat aca act ttc atg cgg gcc agg ttc ggc aot ttg ctc aca gtc atc      480
Tyr Thr Thr Phe Met Arg Ala Arg Phe Gly Thr Leu Leu Thr Val Ile
      145                      150                      155                      160

tcg tgg ttc ctc agt aat att att gct ctt aca cac acc ctt ctg ctc      528
Ser Trp Phe Leu Ser Asn Ile Ile Ala Leu Thr His Thr Leu Leu Leu
      165                      170                      175

att caa ttg ctc ttc tgt gac cac aac act ctc cca cac ttc ttc tgt      576
Ile Gln Leu Leu Phe Cys Asp His Asn Thr Leu Pro His Phe Phe Cys
      180                      185                      190

gac ttg gcc cct ctg ctc aaa ctg tcc tgt tca gat aca atg atc aat      624
Asp Leu Ala Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr Met Ile Asn
      195                      200                      205

gag ctt gtg ttg ttt att gtg ggt tta tca gtt atc atc ttc ccc ttt      672
Gln Leu Val Leu Phe Ile Val Gly Leu Ser Val Ile Ile Phe Pro Phe
      210                      215                      220

gta ctc ctc ttc ttc tcc tat gtc tgc atc atc aga gct gtc ctg gga      720
Val Leu Ile Phe Phe Ser Tyr Val Cys Ile Ile Arg Ala Val Leu Gly
      225                      230                      235                      240

gta tca tcc aca cag gga aag tgg aaa gcc ttc tcc act tgt ggc tct      768
Val Ser Ser Thr Gln Gly Lys Trp Lys Ala Phe Ser Thr Cys Gly Ser
      245                      250                      255

cac ctg aca att gca tta ctg ttc tac gga acc act gta gcc gtg tac      816
His Leu Thr Ile Ala Leu Leu Phe Tyr Gly Thr Thr Val Gly Val Tyr
      260                      265                      270

ttt ttc ccc tcc tcc act cac cct gag gac act gat aag att ggt gct      864
Phe Phe Pro Ser Ser Thr His Pro Glu Asp Thr Asp Lys Ile Gly Ala
      275                      280                      285

gtc cta ttc act gtg gtg aca ccc atg atg aac ccc ttc atc tac agc      912
Val Leu Phe Thr Val Val Thr Pro Met Met Asn Pro Phe Ile Tyr Ser
      290                      295                      300

ttg agg aat aag gat atg aaa ggt gcc ctg aga aag ctc atc aat aga      960
Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Arg Lys Leu Ile Asn Arg
      305                      310                      315                      320

aaa att tct tcc ctt tga
Lys Ile Ser Ser Leu
      325

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<210> 30
<311> 325
<212> PRT

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<213> Homo Sapiens

<400> 30

Met Lys Thr Leu Cys Ser Phe Leu Gln Ile Ser Arg Asn Met His Gln
 1 5 10 15

Glu Asn Gln Thr Thr Ile Thr Glu Phe Ile Leu Leu Gly Leu Ser Asn
 20 25 30

Gln Ala Glu His Gln Asn Leu Leu Phe Val Leu Phe Leu Ser Met Tyr
 35 40 45

Val Val Thr Val Val Gly Asn Gly Leu Ile Ile Val Ala Ile Ser Leu
 50 55 60

Asp Ile Tyr Leu His Thr Pro Met Tyr Leu Phe Leu Ala Tyr Leu Ser
 65 70 75 80

Phe Ala Asp Ile Ser Ser Ile Ser Asn Ser Val Pro Lys Met Leu Val
 85 90 95

Asn Ile Gln Thr Asn Ser Gln Ser Ile Ser Tyr Glu Ser Cys Ile Thr
 100 105 110

Gln Met Tyr Phe Ser Ile Val Phe Val Val Thr Asp Asn Leu Leu Leu
 115 120 125

Gly Thr Met Ala Phe Asp His Phe Val Ala Ile Cys His Pro Leu Asn
 130 135 140

Tyr Thr Thr Phe Met Arg Ala Arg Phe Gly Thr Leu Leu Thr Val Ile
 145 150 155 160

Ser Trp Phe Leu Ser Asn Ile Ile Ala Leu Thr His Thr Leu Leu Leu
 165 170 175

Ile Gln Leu Leu Phe Cys Asp His Asn Thr Leu Pro His Phe Phe Cys
 180 185 190

Asp Leu Ala Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr Met Ile Asn
 195 200 205

Glu Leu Val Leu Phe Ile Val Gly Leu Ser Val Ile Ile Phe Pro Phe
 210 215 220

Val Leu Ile Phe Phe Ser Tyr Val Cys Ile Ile Arg Ala Val Leu Gly

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225 230 235 240
 Val Ser Ser Thr Gln Gly Lys Trp Lys Ala Phe Ser Thr Cys Gly Ser
 245 250 255
 His Leu Thr Ile Ala Leu Leu Phe Tyr Gly Thr Thr Val Gly Val Tyr
 260 265 270
 Phe Phe Pro Ser Ser Thr His Pro Glu Asp Thr Asp Lys Ile Gly Ala
 275 280 285
 Val Leu Phe Thr Val Val Thr Pro Met Met Asn Pro Phe Ile Tyr Ser
 290 295 300
 Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Arg Lys Leu Ile Asn Arg
 305 310 315 320
 Lys Ile Ser Ser Leu
 325

 <210> 31
 <211> 945
 <212> DNA
 <213> Homo Sapiens

 <220>
 <221> CDS
 <222> (1)..(942)
 <223>

 <400> 31
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 Met Ala Lys Asn Asn Leu Thr Arg Val Thr Glu Phe Ile Leu Met Gly
 1 5 10 15
 ttt atg gac cac ccc aaa ttg gag att ccc ctc ttt ctg gtg ttt ctg 96
 Phe Met Asp His Pro Lys Leu Glu Ile Pro Leu Phe Leu Val Phe Leu
 20 25 30
 agt ttc tac cta gtc acc ctt ctt ggg aat gtg ggg atg att atg tta 144
 Ser Phe Tyr Leu Val Thr Leu Leu Gly Asn Val Gly Met Ile Met Leu
 35 40 45
 atc caa gta gat gtc aaa ctc tac acc cca atg tac ttc ttc ctg agc 192
 Ile Gln Val Asp Val Lys Leu Tyr Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 cac ctc tcc ctg ctg gat gcc tgt tac acc tca gtc atc acc cct cag 240
 His Leu Ser Leu Leu Asp Ala Cys Tyr Thr Ser Val Ile Thr Pro Gln
 65 70 75 80
 atc cta gcc aca ttg gcc aca ggc aaa acg gtc atc tcc tac ggc cac 288
 Ile Leu Ala Thr Leu Ala Thr Gly Lys Thr Val Ile Ser Tyr Gly His

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85	90	95	
tgt gct gcc cag ttc ttt tta ttc acc atc tgt gca ggc aca gag tgc			336
Cys Ala Ala Gln Phe Phe Leu Phe Thr Ile Cys Ala Gly Thr Glu Cys			
100	105	110	
ttt ctg ctg gca gtg atg gcc tat gat cgc tat gct gcc att cgc aac			384
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Arg Asn			
115	120	125	
cca ctg ctc tat acc gtg gcc atg aat ccc agg ctc tgc tgg agc ctg			432
Pro Leu Leu Tyr Thr Val Ala Met Asn Pro Arg Leu Cys Trp Ser Leu			
130	135	140	
gtg gta gga gcc tat gtc tgt ggg gtg tca gga gcc atc ctg cgt acc			480
Val Val Gly Ala Tyr Val Cys Gly Val Ser Gly Ala Ile Leu Arg Thr			
145	150	155	160
act tgc acc ttc acc ctc tcc ttc tgt aag gac aat cca ata aac ttc			528
Thr Cys Thr Phe Thr Leu Ser Phe Cys Lys Asp Asn Gln Ile Asn Phe			
165	170	175	
ttc ttc tgt gac ctc cca ccc ctg ctg aag ctt gcc tgc agt gac aca			576
Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr			
180	185	190	
gca aac atc gag att gtc atc atc ttc ttt ggc aat ttt gtg att ttg			624
Ala Asn Ile Glu Ile Val Ile Ile Phe Phe Gly Asn Phe Val Ile Leu			
195	200	205	
gcc aat gcc tcc gtc atc ctg att tcc tat ctg ctc atc atc aag acc			672
Ala Asn Ala Ser Val Ile Leu Ile Ser Tyr Leu Leu Ile Ile Lys Thr			
210	215	220	
att ttg aaa gtg aag tct tca ggt ggc agg gcc aag act ttc tcc aca			720
Ile Leu Lys Val Lys Ser Ser Gly Gly Arg Ala Lys Thr Phe Ser Thr			
225	230	235	240
tgt gcc tct cac atc act gct gtg gcc ctt ttc ttt gga gcc ctt atc			768
Cys Ala Ser His Ile Thr Ala Val Ala Leu Phe Phe Gly Ala Leu Ile			
245	250	255	
ttc atg tat ctg caa agt ggc tca ggc aaa tct ctg gag gaa gac aaa			816
Phe Met Tyr Leu Gln Ser Gly Ser Gly Lys Ser Leu Glu Glu Asp Lys			
260	265	270	
gtc gtg tct gtc ttc tat aca gtg gtc atc ccc atg ctg aac cct ctg			864
Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu			
275	280	285	
atc tac agc tta aga aac aaa gat gta aaa gac gcc ttc aga aag gtc			912
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Phe Arg Lys Val			
290	295	300	
gct agg aga ctc cag gtg tcc ctg agc atg tag			945
Ala Arg Arg Leu Gln Val Ser Leu Ser Met			
305	310		
<210>	32		
<211>	314		

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<212> FRT

<213> Homo Sapiens

<400> 32

Met Ala Lys Asn Asn Leu Thr Arg Val Thr Glu Phe Ile Leu Met Gly
 1 5 10 15

Phe Met Asp His Pro Lys Leu Glu Ile Pro Leu Phe Leu Val Phe Leu
 20 25 30

Ser Phe Tyr Leu Val Thr Leu Leu Gly Asn Val Gly Met Ile Met Leu
 35 40 45

Ile Gln Val Asp Val Lys Leu Tyr Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60

His Leu Ser Leu Leu Asp Ala Cys Tyr Thr Ser Val Ile Thr Pro Gln
 65 70 75 80

Ile Leu Ala Thr Leu Ala Thr Gly Lys Thr Val Ile Ser Tyr Gly His
 85 90 95

Cys Ala Ala Gln Phe Phe Leu Phe Thr Ile Cys Ala Gly Thr Glu Cys
 100 105 110

Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Arg Asn
 115 120 125

Pro Leu Leu Tyr Thr Val Ala Met Asn Pro Arg Leu Cys Trp Ser Leu
 130 135 140

Val Val Gly Ala Tyr Val Cys Gly Val Ser Gly Ala Ile Leu Arg Thr
 145 150 155 160

Thr Cys Thr Phe Thr Leu Ser Phe Cys Lys Asp Asn Gln Ile Asn Phe
 165 170 175

Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr
 180 185 190

Ala Asn Ile Glu Ile Val Ile Ile Phe Phe Gly Asn Phe Val Ile Leu
 195 200 205

Ala Asn Ala Ser Val Ile Leu Ile Ser Tyr Leu Leu Ile Ile Lys Thr
 210 215 220

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Ile Leu Lys Val Lys Ser Ser Gly Gly Arg Ala Lys Thr Phe Ser Thr
225 230 235 240

Cys Ala Ser His Ile Thr Ala Val Ala Leu Phe Phe Gly Ala Leu Ile
245 250 255

Phe Met Tyr Leu Gln Ser Gly Ser Gly Lys Ser Leu Glu Glu Asp Lys
260 265 270

Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
275 280 285

Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Phe Arg Lys Val
290 295 300

Ala Arg Arg Leu Gln Val Ser Leu Ser Met
305 310

<210> 33
<211> 876
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(873)
<223>

<400> 33
atg gag agc ccc aat cga acc acc att cag gag ttt atc ttc tcc gct 48
Met Glu Ser Pro Asn Arg Thr Thr Ile Gln Glu Phe Ile Phe Ser Ala
1 5 10 15
ttc cct tat tcc tgg gtt aag tct gtt gtc tgc ttt gtt cca ctg etc 96
Phe Pro Tyr Ser Trp Val Lys Ser Val Val Cys Phe Val Pro Leu Leu
20 25 30
ttc atc tat gct ttc att gtt gtt gga aac ctg gtc atc atc aca gtc 144
Phe Ile Tyr Ala Phe Ile Val Val Gly Asn Leu Val Ile Ile Thr Val
35 40 45
gtc cag ttg aat act cac ctg cac act ccc atg tat act ttt atc agt 192
Val Gln Leu Asn Thr His Leu His Thr Pro Met Tyr Thr Phe Ile Ser
50 55 60
gct ctt tct ttc ctg gag att tgg tat acc aca gcc aca atc cca aag 240
Ala Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys
65 70 75 80
atg ctg tct agc ctg ctt agt gag agg agc att tcc ttc aat ggt tgt 288
Met Leu Ser Ser Leu Leu Ser Glu Arg Ser Ile Ser Phe Asn Gly Cys
85 90 95
ctc ctg cag atg tat ttc ttc cat tcc acc ggc atc tgt gag gtc tgt 336

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Leu Leu Gln Met Tyr Phe Phe His Ser Thr Gly Ile Cys Glu Val Cys
100 105 110
ctc ttg ada gtt atg gcc ttt gac cac tac ctg gcc ata tgc agc cct 384
Leu Leu Thr Val Met Ala Phe Asp His Tyr Leu Ala Ile Cys Ser Pro
115 120 125
ctt cat tat ccc tct atc atg acc ccc aag cta tgt acc caa ctg act 432
Leu His Tyr Pro Ser Ile Met Thr Pro Dys Leu Cys Thr Gln Leu Thr
130 135 140
tta agt tgc tgt gtt tgt gcc ttt atc aca ccc ctt cct gag att gcc 480
Leu Ser Cys Cys Val Cys Gly Phe Ile Thr Pro Leu Pro Glu Ile Ala
145 150 155 160
tgg atc tct acc ctg cca ttt tgt ggt tgg aat cac ctt gaa cat atc 528
Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn His Leu Glu His Ile
165 170 175
ttc tgt gac ttc ctc cca gtg ctg cgt ctg gcc tgc aca gac aca cga 576
Phe Cys Asp Phe Leu Pro Val Leu Arg Leu Ala Cys Thr Asp Thr Arg
180 185 190
gcc atc gtc atg att cag gta gtg gat gtc att cat gca gtg gag att 624
Ala Ile Val Met Ile Gln Val Val Asp Val Ile His Ala Val Glu Ile
195 200 205
att aca gct gtg atg ctc atc ttc atg tcc tac gat ggt att gtg gct 672
Ile Thr Ala Val Met Leu Ile Phe Met Ser Tyr Asp Gly Ile Val Ala
210 215 220
gta att cta cgt att cat tca gct gga ggc cgc cgg cac agc att ttc 720
Val Ile Leu Arg Ile His Ser Ala Gly Gly Arg Arg His Ser Ile Phe
225 230 235 240
cac gtg tgt ctc tca ctt cat tgt ctt ttc gct ctt ctt tgg cag tgt 768
His Val Cys Leu Ser Leu His Cys Leu Phe Ala Leu Leu Trp Gln Cys
245 250 255
gac tct cat gta cct acg ctt ctc tgc cac cta ctc ttt gtt ctg gga 816
Asp Ser His Val Pro Thr Leu Leu Cys His Leu Leu Phe Val Leu Gly
260 265 270
tat agc cat tgc tct ggc ctt tgc agt ttt gtc tcc ctt ctt caa ccc 864
Tyr Ser His Cys Ser Gly Leu Cys Ser Phe Val Ser Leu Leu Gln Pro
275 280 285
cat tat cta tag 876
His Tyr Leu
290

<210> 34
<211> 291
<212> PRT
<213> Homo Sapiens

<400> 34
Met Glu Ser Pro Asn Arg Thr Thr Ile Gln Glu Phe Ile Phe Ser Ala
1 5 10 15

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Phe Pro Tyr Ser Trp Val Lys Ser Val Val Cys Phe Val Pro Leu Leu
 20 25 30
 Phe Ile Tyr Ala Phe Ile Val Val Gly Asn Leu Val Ile Ile Thr Val
 35 40 45
 Val Gln Leu Asn Thr His Leu His Thr Pro Met Tyr Thr Phe Ile Ser
 50 55 60
 Ala Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys
 65 70 75 80
 Met Leu Ser Ser Leu Leu Ser Glu Arg Ser Ile Ser Phe Asn Gly Cys
 85 90 95
 Leu Leu Gln Met Tyr Phe Phe His Ser Thr Gly Ile Cys Glu Val Cys
 100 105 110
 Leu Leu Thr Val Met Ala Phe Asp His Tyr Leu Ala Ile Cys Ser Pro
 115 120 125
 Leu His Tyr Pro Ser Ile Met Thr Pro Lys Leu Cys Thr Gln Leu Thr
 130 135 140
 Leu Ser Cys Cys Val Cys Gly Phe Ile Thr Pro Leu Pro Glu Ile Ala
 145 150 155 160
 Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn His Leu Glu His Ile
 165 170 175
 Phe Cys Asp Phe Leu Pro Val Leu Arg Leu Ala Cys Thr Asp Thr Arg
 180 185 190
 Ala Ile Val Met Ile Gln Val Val Asp Val Ile His Ala Val Glu Ile
 195 200 205
 Ile Thr Ala Val Met Leu Ile Phe Met Ser Tyr Asp Gly Ile Val Ala
 210 215 220
 Val Ile Leu Arg Ile His Ser Ala Gly Gly Arg Arg His Ser Ile Phe
 225 230 235 240
 His Val Cys Leu Ser Leu His Cys Leu Phe Ala Leu Leu Trp Gln Cys
 245 250 255

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Asp Ser His Val Pro Thr Leu Leu Cys His Leu Leu Phe Val Leu Gly
    260                      265                      270

Tyr Ser His Cys Ser Gly Leu Cys Ser Phe Val Ser Leu Leu Gln Pro
    275                      280                      285

His Tyr Leu
    290

<210> 35
<211> 939
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(936)
<223>

<400> 35
atg gac aca ggg aac tgg agc cag gta gca gaa ttc atc atc ttg ggc      48
Met Asp Thr Gly Asn Trp Ser Gln Val Ala Glu Phe Ile Ile Leu Gly
1      5      10      15

ttc ccc cat ctc cag ggt gtc cag att tat ctc ttc ctc ttg ttg ctt      96
Phe Pro His Leu Gln Gly Val Gln Ile Tyr Leu Phe Leu Leu Leu Leu
20      25      30

ctc att tac ctc atg act gtg ttg gga aac ctg ctg ata ttc ctg gtg      144
Leu Ile Tyr Leu Met Thr Val Leu Gly Asn Leu Leu Ile Phe Leu Val
35      40      45

gtc tgc ctg gac tcc cgg ctt cac aca ccc atg tac cac ttt gtc agc      192
Val Cys Leu Asp Ser Arg Leu His Thr Pro Met Tyr His Phe Val Ser
50      55      60

att ctc tcc ttc tca gag ctt ggc tat aca gct gcc acc atc oot aag      240
Ile Leu Ser Phe Ser Glu Leu Gly Tyr Thr Ala Ala Thr Ile Pro Lys
65      70      75      80

atg ctg gca aac ttg ctc agt gag aaa aag acc att tca ttc tct ggg      288
Met Leu Ala Asn Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Ser Gly
85      90      95

tgt ctc ctg cag atc tat ttc ttt cac tcc ctt gga ggc act gag tgc      336
Cys Leu Leu Gln Ile Tyr Phe Phe His Ser Leu Gly Ala Thr Glu Cys
100     105     110

tat ctc ctg aca gct atg gcc tac gat agg tat tta gcc atc tgc cgg      384
Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg
115     120     125

ccc ctc cac tac cca acc ctc atg acc cca aca ctt tgt gca gag att      432
Pro Leu His Tyr Pro Thr Leu Met Thr Pro Thr Leu Cys Ala Glu Ile
130     135     140

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gcc att ggc tgt tgg ttg gga ggc ttg gct ggg gca gta gtt gaa att    480
Ala Ile Gly Cys Trp Leu Gly Gly Leu Ala Gly Pro Val Val Glu Ile
145                      150                      155                      160

tcc ttg att tca cgc ctc cca ttc tgt ggc ccc aat cgc att cag cac    528
Ser Leu Ile Ser Arg Leu Pro Phe Cys Gly Pro Asn Arg Ile Gln His
                      165                      170                      175

gtc ttt tgt gac ttc cct cct gtg ctg agt ttg gct tgc act gat acg    576
Val Phe Cys Asp Phe Pro Pro Val Leu Ser Leu Ala Cys Thr Asp Thr
                      180                      185                      190

tct ata aat gtc cta gta gat ttt gtt ata aat tcc tgc aag atc cta    624
Ser Ile Asn Val Leu Val Asp Phe Val Ile Asn Ser Cys Lys Ile Leu
                      195                      200                      205

gcc acc ttc ctg ctg atc ctc tgc tcc tat gtg cag atc atc tgc aca    672
Ala Thr Phe Leu Leu Ile Leu Cys Ser Tyr Val Gln Ile Ile Cys Thr
                      210                      215                      220

gtg ctg aga att ccc tca gct gcc ggc aag agg aag gcc atc tcc acg    720
Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Arg Lys Ala Ile Ser Thr
                      225                      230                      235                      240

tgt gcc tcc cac ttc act gtg gtt ctc atc ttc tat ggg agc atc ctt    768
Cys Ala Ser His Phe Thr Val Val Leu Ile Phe Tyr Gly Ser Ile Leu
                      245                      250                      255

tcc atg tat gtg cag ctg aag aag agc tac tca ctg gac tat gac cag    816
Ser Met Tyr Val Gln Leu Lys Lys Ser Tyr Ser Leu Asp Tyr Asp Gln
                      260                      265                      270

gcc ctg gca gtg gtc tac tca gtg ctg cca ccc ttc ctc aac ccc ttc    864
Ala Leu Ala Val Val Tyr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe
                      275                      280                      285

atc tac agc ttg cgc aac aag gag atc aag gag gct gtg agg agg cag    912
Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Glu Ala Val Arg Arg Gln
                      290                      295                      300

cta aag aga att ggg ata ttg gca tga    936
Leu Lys Arg Ile Gly Ile Leu Ala
305                      310

<210> 36
<211> 312
<212> PRT
<213> Homo Sapiens

<400> 36
Met Asp Thr Gly Asn Trp Ser Gln Val Ala Glu Phe Ile Ile Leu Gly
1                      5                      10                      15

Phe Pro His Leu Gln Gly Val Gln Ile Tyr Leu Phe Leu Leu Leu Leu
20                      25                      30

Leu Ile Tyr Leu Met Thr Val Leu Gly Asn Leu Leu Ile Phe Leu Val

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      35              40              45
Val Cys Leu Asp Ser Arg Leu His Thr Pro Met Tyr His Phe Val Ser
  50              55              60
Ile Leu Ser Phe Ser Glu Leu Gly Tyr Thr Ala Ala Thr Ile Pro Lys
  65              70              75              80
Met Leu Ala Asn Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Ser Gly
      85              90              95
Cys Leu Leu Gln Ile Tyr Phe Phe His Ser Leu Gly Ala Thr Gln Cys
      100             105             110
Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg
      115             120             125
Pro Leu His Tyr Pro Thr Leu Met Thr Pro Thr Leu Cys Ala Glu Ile
      130             135             140
Ala Ile Gly Cys Trp Leu Gly Gly Leu Ala Gly Pro Val Val Glu Ile
      145             150             155             160
Ser Leu Ile Ser Arg Leu Pro Phe Cys Gly Pro Asn Arg Ile Gln His
      165             170             175
Val Phe Cys Asp Phe Pro Pro Val Leu Ser Leu Ala Cys Thr Asp Thr
      180             185             190
Ser Ile Asn Val Leu Val Asp Phe Val Ile Asn Ser Cys Lys Ile Leu
      195             200             205
Ala Thr Phe Leu Leu Ile Leu Cys Ser Tyr Val Gln Ile Ile Cys Thr
      210             215             220
Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Arg Lys Ala Ile Ser Thr
      225             230             235             240
Cys Ala Ser His Phe Thr Val Val Leu Ile Phe Tyr Gly Ser Ile Leu
      245             250             255
Ser Met Tyr Val Gln Leu Lys Lys Ser Tyr Ser Leu Asp Tyr Asp Gln
      260             265             270
Ala Leu Ala Val Val Tyr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe
      275             280             285

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PCT/BE01/00162

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Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Glu Ala Val Arg Arg Gln
290                295                300

Leu Lys Arg Ile Gly Ile Leu Ala
305                310

<210> 37
<211> 915
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)...(942)
<223>

<400> 37
atg gga gaa gaa aac caa acc ttt gtg tcc aag ttt atc ttc ctg ggt      48
Met Gly Glu Glu Asn Gln Thr Phe Val Ser Lys Phe Ile Phe Leu Gly
1      5      10      15

ctt tca cag gac ttg cag acc cag atc ctg cta ttt atc ctt ttc ctc      96
Leu Ser Gln Asp Leu Gln Thr Gln Ile Leu Leu Phe Ile Leu Phe Leu
20      25      30

atc att tat ctg ctg acc gtg ctt gga aac cag etc atc atc att ctc      144
Ile Ile Tyr Leu Leu Thr Val Leu Gly Asn Gln Leu Ile Ile Ile Leu
35      40      45

atc ttc ctg gat tct cgc ctt cac act ccc atg tat ttt ttt ctt aga      192
Ile Phe Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Arg
50      55      60

aat ctc tcc ttt gca gat ctc tgt ttc tct act agc att gtc cct caa      240
Asn Leu Ser Phe Ala Asp Leu Cys Phe Ser Thr Ser Ile Val Pro Gln
65      70      75      80

gtg ttg gtt cac ttc ttg gta aag agg aaa acc att tct ttt tat ggg      288
Val Leu Val His Phe Leu Val Lys Arg Lys Thr Ile Ser Phe Tyr Gly
85      90      95

tgt atg aca cag ata att gtc ttt ctt ctg gtt ggg tgt aca gag tgt      336
Cys Met Thr Gln Ile Ile Val Phe Leu Leu Val Gly Cys Thr Glu Cys
100     105     110

gcg ctg ctg gca gtg atg tcc tat gac cgg tat gtg gct gtc tgc aag      384
Ala Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Val Cys Lys
115     120     125

ccc ctg tac tac tct acc atc atg aca caa cgg gtg tgt ctc tgg ctg      432
Pro Leu Tyr Tyr Ser Thr Ile Met Thr Gln Arg Val Cys Leu Trp Leu
130     135     140

tcc ttc agg tcc tgg gcc agt ggg gca cta gtg tct tta gta gat acc      480
Ser Phe Arg Ser Trp Ala Ser Gly Ala Leu Val Ser Leu Val Asp Thr
145     150     155     160

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agc ttt act ttc cat ctt ccc tac tgg gga cag aat ata atc aat cac      528
Ser Phe Thr Phe His Leu Pro Tyr Trp Gly Gln Asn Ile Ile Asn His
      165                      170                      175

tac ttt tgt gaa cct cct gcc ctc ctg aag ctg gct tcc ata gac act      576
Tyr Phe Cys Glu Pro Pro Ala Leu Leu Lys Leu Ala Ser Ile Asp Thr
      180                      185                      190

tac agc aca gaa atg gcc atc ttt tca atg ggc gtg gta atc ctc ctg      624
Tyr Ser Thr Glu Met Ala Ile Phe Ser Met Gly Val Val Ile Leu Leu
      195                      200                      205

gcc cct gtc tcc ctg att ctt ggt tct tat tgg aat att atc tcc act      672
Ala Pro Val Ser Leu Ile Leu Gly Ser Tyr Trp Asn Ile Ile Ser Thr
      210                      215                      220

gtt atc cag atg cag tct ggg gaa ggg aga ctc aag gct ttt tcc acc      720
Val Ile Gln Met Gln Ser Gly Glu Gly Arg Leu Lys Ala Phe Ser Thr
      225                      230                      235

tgt ggc tcc cat ctt att gtt gtt gtc ctc ttc tat ggg tca gga ata      768
Cys Gly Ser His Leu Ile Val Val Val Leu Phe Tyr Gly Ser Gly Ile
      245                      250                      255

ttc acc tac atg cga cca aac tcc aag act aca aaa gaa ctg gat aaa      816
Phe Thr Tyr Met Arg Pro Asn Ser Lys Thr Thr Lys Glu Ile Asp Lys
      260                      265                      270

atg ata tct gtg ttc tat aca ggg gtg act cca atg ttg aac ccc ata      864
Met Ile Ser Val Phe Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Ile
      275                      280                      285

att tat agc ttg agg aac aaa gat gtc aaa ggg gct ctc agg aaa cta      912
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Arg Lys Leu
      290                      295                      300

gtt ggg aga aag tgc ttc tct cat agg cag tga      945
Val Gly Arg Lys Cys Phe Ser His Arg Gln
      305                      310

<210> 38
<211> 314
<212> FRT
<213> Homo Sapiens

<400> 38
Met Gly Glu Glu Asn Gln Thr Phe Val Ser Lys Phe Ile Phe Leu Gly
1                      5                      10                      15

Leu Ser Gln Asp Leu Gln Thr Gln Ile Leu Leu Phe Ile Leu Phe Leu
20                      25                      30

Ile Ile Tyr Leu Leu Thr Val Leu Gly Asn Gln Leu Ile Ile Ile Leu
35                      40                      45

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Ile Phe Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Arg
 50 55 60
 Asn Leu Ser Phe Ala Asp Leu Cys Phe Ser Thr Ser Ile Val Pro Gln
 65 70 75 80
 Val Leu Val His Phe Leu Val Lys Arg Lys Thr Ile Ser Phe Tyr Gly
 85 90 95
 Cys Met Thr Gln Ile Ile Val Phe Leu Leu Val Gly Cys Thr Glu Cys
 100 105 110
 Ala Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Val Cys Lys
 115 120 125
 Pro Leu Tyr Tyr Ser Thr Ile Met Thr Gln Arg Val Cys Leu Trp Leu
 130 135 140
 Ser Phe Arg Ser Trp Ala Ser Gly Ala Leu Val Ser Leu Val Asp Thr
 145 150 155 160
 Ser Phe Thr Phe His Leu Pro Tyr Trp Gly Gln Asn Ile Ile Asn His
 165 170 175
 Tyr Phe Cys Glu Pro Pro Ala Leu Leu Lys Leu Ala Ser Ile Asp Thr
 180 185 190
 Tyr Ser Thr Glu Met Ala Ile Phe Ser Met Gly Val Val Ile Leu Leu
 195 200 205
 Ala Pro Val Ser Leu Ile Leu Gly Ser Tyr Trp Asn Ile Ile Ser Thr
 210 215 220
 Val Ile Gln Met Gln Ser Gly Glu Gly Arg Leu Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Ile Val Val Val Leu Phe Tyr Gly Ser Gly Ile
 245 250 255
 Phe Thr Tyr Met Arg Pro Asn Ser Lys Thr Thr Lys Glu Leu Asp Lys
 260 265 270
 Met Ile Ser Val Phe Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Ile
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Arg Lys Leu

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290                295                300

Val Gly Arg Lys Cys Phe Ser His Arg Gln
305                310

<210> 39
<211> 918
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(915)
<223>

<400> 39
atg gag ccc acc ttt gcc ctt tta ggt ctc aca gat tac cca aag ctt      48
Met Glu Pro Thr Phe Ala Leu Leu Gly Phe Thr Asp Tyr Pro Lys Leu
1      5      10      15

cag att cct ctc ttc ctt gtg ttt ctg ctc atg tat gtt atc aca gtg      96
Gln Ile Pro Leu Phe Leu Val Phe Leu Leu Met Tyr Val Ile Thr Val
20     25     30

gta gga aac ctt ggg atg atc ata ata atc aag att aac ccc aaa ttt      144
Val Gly Asn Leu Gly Met Ile Ile Ile Ile Lys Ile Asn Pro Lys Phe
35     40     45

cac act cct atg tac ttt ttc ctt agt cac ctc tct ttt gtt gat ttt      192
His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ser Phe Val Asp Phe
50     55     60

tgt tac tct tcc att gtc act ccc aag ctg ctt gag aac ttg gra atg      240
Cys Tyr Ser Ser Ile Val Thr Pro Lys Leu Leu Glu Asn Leu Val Met
65     70     75     80

gca gat aaa agc atc ttc tac ttt agc tgc atg atg cag tac ttc ctg      288
Ala Asp Lys Ser Ile Phe Tyr Phe Ser Cys Met Met Gln Tyr Phe Leu
85     90     95

tcc tgc act gct gtg gtg aca gag tct ttc ttg ctg gca gtg atg gcc      336
Ser Cys Thr Ala Val Val Thr Glu Ser Phe Leu Leu Ala Val Met Ala
100    105    110

tat gac cgc ttt gtg gcc atc tgc aat cct ctg ctt tat aca gtg gcc      384
Tyr Asp Arg Phe Val Ala Ile Cys Asn Pro Leu Leu Tyr Thr Val Ala
115    120    125

atg tca cag agg ctc tgt gcc ctg ctg gtg gct ggg tca tat ctc tgg      432
Met Ser Gln Arg Leu Cys Ala Leu Leu Val Ala Gly Ser Tyr Leu Trp
130    135    140

ggc atg ttt ggc ccc ttg gta ctc ctt tgt tat gct ctc cgg tta aac      480
Gly Met Phe Gly Pro Leu Val Leu Leu Cys Tyr Ala Leu Arg Leu Asn
145    150    155    160

ttc tct gga cct aat gta atc aac cac ttc ttt tgt gag tat act gct      528
Phe Ser Gly Pro Asn Val Ile Asn His Phe Phe Cys Glu Tyr Thr Ala

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165          170          175
ctc atc tct gtg tct ggc tct gat ata ctc atc ccc cac ctg ctg ett 576
Leu Ile Ser Val Ser Gly Ser Asp Ile Leu Ile Pro His Leu Leu Leu
180          185          190

ttc agc ttc gcc acc ttc aat gag atg tgt aca cta ctg atc atc ctc 624
Phe Ser Phe Ala Thr Phe Asn Glu Met Cys Thr Leu Leu Ile Ile Leu
195          200          205

act tcc tat gtt ttc att ttt gtg aat gta cta aaa atc cgt tot gtt 672
Thr Ser Tyr Val Phe Ile Phe Val Thr Val Leu Lys Ile Arg Ser Val
210          215          220

agt ggg cgc cac aaa gcc ttc tcc acc tgg gcc tcc cac ctg act gct 720
Ser Gly Arg His Lys Ala Phe Ser Thr Trp Ala Ser His Leu Thr Ala
225          230          235          240

atc acc atc ttc cat ggg acc atc ctt ttc ctt tac tgt gta ccc aac 768
Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr Cys Val Pro Asn
245          250          255

tcc aaa aac tct cgg caa aca gtc aaa gtg gcc tct gta ttt tac asa 816
Ser Lys Asn Ser Arg Gln Thr Val Lys Val Ala Ser Val Phe Tyr Thr
260          265          270

gtt gtc aac ccc atg ctg aac cct ccg atc tac agc cta agg aat aaa 864
Val Val Asn Pro Met Leu Asn Pro Pro Ile Tyr Ser Leu Arg Asn Lys
275          280          285

gac gtg aag gat gct ttc tgg aag tta ata cat aca caa gtt cca ttt 912
Asp Val Lys Asp Ala Phe Trp Lys Leu Ile His Thr Gln Val Pro Phe
290          295          300

cac tga 918
His
305

<210> 40
<211> 305
<212> PRT
<213> Homo Sapiens

<400> 40
Met Glu Pro Thr Phe Ala Leu Leu Gly Phe Thr Asp Tyr Pro Lys Leu
1 5 10 15

Gln Ile Pro Leu Phe Leu Val Phe Leu Leu Met Tyr Val Ile Thr Val
20 25 30

Val Gly Asn Leu Gly Met Ile Ile Ile Ile Lys Ile Asn Pro Lys Phe
35 40 45

His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ser Phe Val Asp Phe
50 55 60

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Cys Tyr Ser Ser Ile Val Thr Pro Lys Leu Leu Glu Asn Leu Val Met
 65 70 75 80
 Ala Asp Lys Ser Ile Phe Tyr Phe Ser Cys Met Met Gln Tyr Phe Leu
 85 90 95
 Ser Cys Thr Ala Val Val Thr Glu Ser Phe Leu Leu Ala Val Met Ala
 100 105 110
 Tyr Asp Arg Phe Val Ala Ile Cys Asn Pro Leu Leu Tyr Thr Val Ala
 115 120 125
 Met Ser Gln Arg Leu Cys Ala Leu Leu Val Ala Gly Ser Tyr Leu Trp
 130 135 140
 Gly Met Phe Gly Pro Leu Val Leu Leu Cys Tyr Ala Leu Arg Leu Asn
 145 150 155 160
 Phe Ser Gly Pro Asn Val Ile Asn His Phe Phe Cys Glu Tyr Thr Ala
 165 170 175
 Leu Ile Ser Val Ser Gly Ser Asp Ile Leu Ile Pro His Leu Leu Leu
 180 185 190
 Phe Ser Phe Ala Thr Phe Asn Glu Met Cys Thr Leu Leu Ile Ile Leu
 195 200 205
 Thr Ser Tyr Val Phe Ile Phe Val Thr Val Leu Lys Ile Arg Ser Val
 210 215 220
 Ser Gly Arg His Lys Ala Phe Ser Thr Trp Ala Ser His Leu Thr Ala
 225 230 235 240
 Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr Cys Val Pro Asn
 245 250 255
 Ser Lys Asn Ser Arg Gln Thr Val Lys Val Ala Ser Val Phe Tyr Thr
 260 265 270
 Val Val Asn Pro Met Leu Asn Pro Pro Ile Tyr Ser Leu Arg Asn Lys
 275 280 285
 Asp Val Lys Asp Ala Phe Trp Lys Leu Ile His Thr Gln Val Pro Phe
 290 295 300

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PCT/BE01/00162

His
305<210> 41
<211> 930
<212> DNA
<213> Homo Sapiens<220>
<221> CDS
<222> (1)..(927)
<223>

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<400> 41
atg gaa aat caa aac aat gtg act gaa ttc att ctt ctg ggt ctc aca      48
Met Glu Asn Gln Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
1      5      10      15

gag aac ctg gag ctg tgg aaa ata ttt tct gct gtg ttt ctt gtc atg      96
Glu Asn Leu Glu Leu Trp Lys Ile Phe Ser Ala Val Phe Leu Val Met
20     25     30

tat gta gcc aca gtg ctg gaa aat cta ctt att gtg gta act att atc      144
Tyr Val Ala Thr Val Leu Glu Asn Leu Leu Ile Val Val Thr Ile Ile
35     40     45

aca agt cag agt ctg agg tca cct atg tat ttt ttt ctt acc ttc ttg      192
Thr Ser Gln Ser Leu Arg Ser Pro Met Tyr Phe Phe Leu Thr Phe Leu
50     55     60

tcc ctt ttg gat gtc atg ttc tca tct gtc gtt gcc ccc aag gtg att      240
Ser Leu Leu Asp Val Met Phe Ser Ser Val Val Ala Pro Lys Val Ile
65     70     75     80

gta gac acc ctc tcc aag agc act acc atc tct ctc aaa ggc tgc ctc      288
Val Asp Thr Leu Ser Lys Ser Thr Thr Ile Ser Leu Lys Gly Cys Leu
85     90     95

acc cag ctg ttt gtg gag cat ttc ttt ggt ggt gtg ggg atc atc ctc      336
Thr Gln Leu Phe Val Glu His Phe Phe Gly Gly Val Gly Ile Ile Leu
100    105    110

ctc act gtg atg gcc tat gac cgc tac gtg gcc atc tgt aag ccc ctg      384
Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
115    120    125

cac tac acg atc atc atg agt cca cgg gtg tgc tgc cta atg gta gga      432
His Tyr Thr Ile Ile Met Ser Pro Arg Val Cys Cys Leu Met Val Gly
130    135    140

ggg gct tgg gtg ggg gga ttt atg cac gca atg ata caa ctt ctc ttc      480
Gly Ala Trp Val Gly Gly Phe Met His Ala Met Ile Gln Leu Leu Phe
145    150    155    160

atg tat caa ata ccc ttc tgt ggt cct aat atc ata gat cac ttt ata      528
Met Tyr Gln Ile Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Ile
165    170    175

tgt gat ttg ttt cag ttg ttg aca ctt gcc tgc acg gac acc cac atc      576

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Cys Asp Leu Phe Gln Leu Leu Thr Leu Ala Cys Thr Asp Thr His Ile
 180 185 190
 ctg ggc ctc tta gtt acc ctc aac agt ggg atg atg tgt gtg gcc atc 624
 Leu Gly Leu Leu Val Thr Leu Asn Ser Gly Met Met Cys Val Ala Ile
 195 200 205
 ttt ctt atc tta att ggc tcc tac aag gtc atc cta tgc tcc ctg aag 672
 Phe Leu Ile Leu Ile Ala Ser Tyr Thr Val Ile Leu Cys Ser Leu Lys
 210 215 220
 tct tac agc tct aaa ggg cgg cac aaa gcc ctc tct acc tgc agc tcc 720
 Ser Tyr Ser Ser Lys Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser
 225 230 235 240
 cac ctc aag gtg gtt gta ttg ttc ttt gtc ccc tgt att ttc ttg tac 758
 His Leu Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr
 245 250 255
 atg agg cct gtg gtc act cac ccc ata gac aag gca atg gct gtg tca 916
 Met Arg Pro Val Val Thr His Pro Ile Asp Lys Ala Met Ala Val Ser
 260 265 270
 gac tca atc atc aca ccc atg tta aat ccc ttg atc tat aca ctg agg 864
 Asp Ser Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 aat gca gag gtg aaa agt gcc atg aag aaa ctc tgg atg aaa tgg gag 912
 Asn Ala Gln Val Lys Ser Ala Met Lys Lys Leu Trp Met Lys Trp Gln
 290 295 300
 gct ttg gct ggg aaa taa 930
 Ala Leu Ala Gly Lys
 305
 <210> 42
 <211> 309
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 <213> Homo Sapiens
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 Met Glu Asn Gln Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
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 Glu Asn Leu Glu Leu Trp Lys Ile Phe Ser Ala Val Phe Leu Val Met
 20 25 30
 Tyr Val Ala Thr Val Leu Glu Asn Leu Leu Ile Val Val Thr Ile Ile
 35 40 45
 Thr Ser Gln Ser Leu Arg Ser Pro Met Tyr Phe Phe Leu Thr Phe Leu
 50 55 60
 Ser Leu Leu Asp Val Met Phe Ser Ser Val Val Ala Pro Lys Val Ile
 65 70 75 80

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Val Asp Thr Leu Ser Lys Ser Thr Thr Ile Ser Leu Lys Gly Cys Leu
 85 90 95
 Thr Gln Leu Phe Val Glu His Phe Phe Gly Gly Val Gly Ile Ile Leu
 100 105 110
 Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Ile Ile Met Ser Pro Arg Val Cys Cys Leu Met Val Gly
 130 135 140
 Gly Ala Trp Val Gly Gly Phe Met His Ala Met Ile Gln Leu Leu Phe
 145 150 155 160
 Met Tyr Gln Ile Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Ile
 165 170 175
 Cys Asp Leu Phe Gln Leu Leu Thr Leu Ala Cys Thr Asp Thr His Ile
 180 185 190
 Leu Gly Leu Leu Val Thr Leu Asn Ser Gly Met Met Cys Val Ala Ile
 195 200 205
 Phe Leu Ile Leu Ile Ala Ser Tyr Thr Val Ile Leu Cys Ser Leu Lys
 210 215 220
 Ser Tyr Ser Ser Lys Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser
 225 230 235 240
 His Leu Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr
 245 250 255
 Met Arg Pro Val Val Thr His Pro Ile Asp Lys Ala Met Ala Val Ser
 260 265 270
 Asp Ser Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 Asn Ala Glu Val Lys Ser Ala Met Lys Lys Leu Trp Met Lys Trp Glu
 290 295 300
 Ala Leu Ala Gly Lys
 305

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<210> 43
 <211> 936
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)...(933)
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<400> 43
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 Met Gly Lys Glu Asn Cys Thr Thr Val Ala Glu Phe Ile Leu Leu Gly
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 cta tca gat gtc cct gag ttg aga gtc tgc ctc ttc ctg ctg ttc ctt 96
 Leu Ser Asp Val Pro Glu Leu Arg Val Cys Leu Phe Leu Leu Phe Leu
 20 25 30
 ctc atc tat gga gtc acg ttg tta gcc aac ctg ggc atg att gca ctg 144
 Leu Ile Tyr Gly Val Thr Leu Leu Ala Asn Leu Gly Met Ile Ala Leu
 35 40 45
 att cag gtc agc tct cgg ctc cac acc ccc atg ttc ttt ttc ctc agc 192
 Ile Gln Val Ser Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 cac ttg tcc tct gta gat ttc tgc tac tcc tca ata att gtg cca aaa 240
 His Leu Ser Ser Val Asp Phe Cys Tyr Ser Ser Ile Ile Val Pro Lys
 65 70 75 80
 atg ttg gct aat atc ttt aac aag gac aaa gcc atc tcc ttc cta ggg 288
 Met Leu Ala Asn Ile Phe Asn Lys Asp Lys Ala Ile Ser Phe Leu Gly
 85 90 95
 tgc atg gtg caa ttc tac ttg ttt tgc act tgt gtg gtc act gag gtc 336
 Cys Met Val Gln Phe Tyr Leu Phe Cys Thr Cys Val Val Thr Glu Val
 100 105 110
 ttc ctg ctg gcc gtg atg gcc tat gac cgc ttt gtg gcc atc tgt aac 384
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn
 115 120 125
 cct ttg cta tac aca gtc acc atg tct tgg aag gtg cgt gtg gag ctg 432
 Pro Leu Leu Tyr Thr Val Thr Met Ser Trp Lys Val Arg Val Glu Leu
 130 135 140
 gct tct tgc tgc tac ttc tgt ggg acg gtg tgt tct ctg att cat ttg 480
 Ala Ser Cys Cys Tyr Phe Cys Gly Thr Val Cys Ser Leu Ile His Leu
 145 150 155 160
 tgc tta gct ctt agg atc ccc ttc tat aga tct aat gtg att aac cac 528
 Cys Leu Ala Leu Arg Ile Pro Phe Tyr Arg Ser Asn Val Ile Asn His
 165 170 175
 ttt ttc tgt gat cta cct cct gtc tta agt ctt gct tgc tct gat atc 576
 Phe Phe Cys Asp Leu Pro Pro Val Leu Ser Leu Ala Cys Ser Asp Ile
 180 185 190

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act gtg aat gag aca ctg ctg ttc ctg gtg gcc act ttg aat gag agt      624
Thr Val Asn Glu Thr Leu Leu Phe Leu Val Ala Thr Leu Asn Glu Ser
195                               200                               205

ggt acc atc atg atc atc ctc acc tcc tac ctg cta att ctc acc acc      672
Val Thr Ile Met Ile Ile Leu Thr Ser Tyr Leu Leu Ile Leu Thr Thr
210                               215                               220

atc ctg aag atg ggc tct gca gag ggc agg cac aaa gcc ttc tcc acc      720
Ile Leu Lys Met Gly Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
225                               230                               235                               240

tgt gct tcc cac ctc aca gct atc act gtc ttc cat gga aca gtc ctt      768
Cys Ala Ser His Leu Thr Ala Ile Thr Val Phe His Gly Thr Val Leu
245                               250                               255

tcc att tat tgc agg ccc agt tca ggc aat agt gga gat gct gac aaa      816
Ser Ile Tyr Cys Arg Pro Ser Ser Gly Asn Ser Gly Asp Ala Asp Lys
260                               265                               270

gtg gcc acc gtg ttc tac aca gtc gtg att cct atg ctg acc tot gtc      864
Val Ala Thr Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Ser Val
275                               280                               285

atc tac agc ctg aga aat aaa gat gtg aaa gaa gct ctc aga aaa gtg      912
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Arg Lys Val
290                               295                               300

atg gcc tcc aaa att cac tcc tag      936
Met Gly Ser Lys Ile His Ser
305                               310

<210> 44
<211> 311
<212> PRT
<213> Homo Sapiens

<400> 44
Met Gly Lys Glu Asn Cys Thr Thr Val Ala Glu Phe Ile Leu Leu Gly
1                               5                               10                               15

Leu Ser Asp Val Pro Glu Leu Arg Val Cys Leu Phe Leu Leu Phe Leu
20                               25                               30

Leu Ile Tyr Gly Val Thr Leu Leu Ala Asn Leu Gly Met Ile Ala Leu
35                               40                               45

Ile Gln Val Ser Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50                               55                               60

His Leu Ser Ser Val Asp Phe Cys Tyr Ser Ser Ile Ile Val Pro Lys
65                               70                               75                               80

Met Leu Ala Asn Ile Phe Asn Lys Asp Lys Ala Ile Ser Phe Leu Gly

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      85              90              95
Cys Met Val Gln Phe Tyr Leu Phe Cys Thr Cys Val Val Thr Glu Val
    100              105              110
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn
    115              120              125
Pro Leu Leu Tyr Thr Val Thr Met Ser Trp Lys Val Arg Val Glu Leu
    130              135              140
Ala Ser Cys Cys Tyr Phe Cys Gly Thr Val Cys Ser Leu Ile His Leu
    145              150              155              160
Cys Leu Ala Leu Arg Ile Pro Phe Tyr Arg Ser Asn Val Ile Asn His
    165              170              175
Phe Phe Cys Asp Leu Pro Pro Val Leu Ser Leu Ala Cys Ser Asp Ile
    180              185              190
Thr Val Asn Glu Thr Leu Leu Phe Leu Val Ala Thr Leu Asn Glu Ser
    195              200              205
Val Thr Ile Met Ile Ile Leu Thr Ser Tyr Leu Leu Ile Leu Thr Thr
    210              215              220
Ile Leu Lys Met Gly Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
    225              230              235              240
Cys Ala Ser His Leu Thr Ala Ile Thr Val Phe His Gly Thr Val Leu
    245              250              255
Ser Ile Tyr Cys Arg Pro Ser Ser Gly Asn Ser Gly Asp Ala Asp Lys
    260              265              270
Val Ala Thr Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Ser Val
    275              280              285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Arg Lys Val
    290              295              300
Met Gly Ser Lys Ile His Ser
    305              310
<210> 45
<211> 943

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<212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(942)
 <223>

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 Met Met Ala Ser Glu Arg Asn Gln Ser Ser Thr Pro Thr Phe Ile Leu
 1 5 10 15
 ttg ggt ttt tca gaa tnc cca gaa atc cag ggt cca ctc ttt ctg gtt 96
 Leu Gly Phe Ser Glu Tyr Pro Glu Ile Gln Val Pro Leu Phe Leu Val
 20 25 30
 ttc ttg ttc gtc tac sca gtc act gta gtg ggg aac ttg ggc atg ata 144
 Phe Leu Phe Val Tyr Thr Val Thr Val Val Gly Asn Leu Gly Met Ile
 35 40 45
 ata atc atc aga ctc aat tca aaa ctc cat aca atc atg tac ttt ttc 192
 Ile Ile Ile Arg Leu Asn Ser Lys Leu His Thr Ile Met Tyr Phe Phe
 50 55 60
 ctc agt cac ttg tcc ttg aca gac ttc tgt ttt tcc act gta gtt ada 240
 Leu Ser His Leu Ser Leu Thr Asp Phe Cys Phe Ser Thr Val Val Thr
 65 70 75 80
 cct aaa ctg ttg gag aac ttg gtt gtg gaa tac aga acc atc tct ttc 288
 Pro Lys Leu Leu Glu Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe
 85 90 95
 tct ggt tgc atc atg caa ttt tgt ttt gct tgc att ttt gga gtg ada 336
 Ser Gly Cys Ile Met Gln Phe Cys Phe Ala Cys Ile Phe Gly Val Thr
 100 105 110
 gaa act ttc atg tta gca gcg atg gct tat gac cgt ttt gtg gca gtt 384
 Glu Thr Phe Met Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Val
 115 120 125
 tgt aaa ccc ttg ctg tat acc act att atg tot cag aag ctc tgt gct 432
 Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met Ser Ser Gln Lys Leu Cys Ala
 130 135 140
 ctt ctg gtg gct ggg tcc tat aca tgg ggg ata gtg tgc tcc ctg ata 480
 Leu Leu Val Ala Gly Ser Tyr Thr Tyr Gly Ile Val Cys Ser Leu Ile
 145 150 155 160
 ctc aca tat tct ctt ctt gac tta tcy ttt tgt gaa tot acc ttc ata 528
 Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe Cys Glu Ser Thr Phe Ile
 165 170 175
 aat aat ttt atc tgt gac cac tct gta att gtt tct gcc tcc tac tca 576
 Asn Asn Phe Ile Cys Asp His Ser Val Ile Val Ser Ala Ser Tyr Ser
 180 185 190
 gac ccc tat atc agc cag agg cta tgc ttt att att gcc ata ttc aat 624
 Asp Pro Tyr Ile Ser Gln Arg Leu Cys Phe Ile Ile Ala Ile Phe Asn
 195 200 205

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gag gtg agc agc cta att atc att ctg aca tca tat atg ctt att ttc      672
Glu Val Ser Ser Leu Ile Ile Ile Leu Thr Ser Tyr Met Leu Ile Phe
210                215                220

act acc att atg aag atg cga tct gca agt ggg cgc cag aaa act ttc      720
Thr Thr Ile Met Lys Met Arg Ser Ala Ser Gly Arg Gln Lys Thr Phe
225                230                235                240

tcc acc tgt gcc tcc cac ctg aca gcc atc act atc ttc cat gga act      768
Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
245                250                255

atc ctt ttc ctt tac tgt gtt cct aat cct aaa act tct agc ctc ata      816
Ile Leu Phe Leu Tyr Cys Val Pro Asn Pro Lys Thr Ser Ser Leu Ile
260                265                270

gtt aca gtg gct tct gtg ttt tac aca gtg gcg att cca atg ctg aac      864
Val Thr Val Ala Ser Val Phe Tyr Thr Val Ala Ile Pro Met Leu Asn
275                280                285

cca ttg atc tac agc ctt agg aac aaa gat atc aat aac atg ttt gaa      912
Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Asn Met Phe Glu
290                295                300

aaa tta gtt gtc acc aaa ttg att tac cac tga                        945
Lys Leu Val Val Thr Lys Leu Ile Tyr His
305                310

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<210> 46
 <211> 314
 <212> PRT
 <213> Homo Sapiens

<400> 46

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Met Met Ala Ser Glu Arg Asn Gln Ser Ser Thr Pro Thr Phe Ile Leu
1      5      10      15

Leu Gly Phe Ser Glu Tyr Pro Glu Ile Gln Val Pro Leu Phe Leu Val
20     25     30

Phe Leu Phe Val Tyr Thr Val Thr Val Val Gly Asn Leu Gly Met Ile
35     40     45

Ile Ile Ile Arg Leu Asn Ser Lys Leu His Thr Ile Met Tyr Phe Phe
50     55     60

Leu Ser His Leu Ser Leu Thr Asp Phe Cys Phe Ser Thr Val Val Thr
65     70     75     80

Pro Lys Leu Leu Glu Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe
85     90     95

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Ser Gly Cys Ile Met Gln Phe Cys Phe Ala Cys Ile Phe Gly Val Thr
 100 105 110
 Glu Thr Phe Met Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Val
 115 120 125
 Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met Ser Gln Lys Leu Cys Ala
 130 135 140
 Leu Leu Val Ala Gly Ser Tyr Thr Trp Gly Ile Val Cys Ser Leu Ile
 145 150 155 160
 Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe Cys Glu Ser Thr Phe Ile
 165 170 175
 Asn Asn Phe Ile Cys Asp His Ser Val Ile Val Ser Ala Ser Tyr Ser
 180 185 190
 Asp Pro Tyr Ile Ser Gln Arg Leu Cys Phe Ile Ile Ala Ile Phe Asn
 195 200 205
 Glu Val Ser Ser Leu Ile Ile Ile Leu Thr Ser Tyr Met Leu Ile Phe
 210 215 220
 Thr Thr Ile Met Lys Met Arg Ser Ala Ser Gly Arg Gln Lys Thr Phe
 225 230 235 240
 Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
 245 250 255
 Ile Leu Phe Leu Tyr Cys Val Pro Asn Pro Lys Thr Ser Ser Leu Ile
 260 265 270
 Val Thr Val Ala Ser Val Phe Tyr Thr Val Ala Ile Pro Met Leu Asn
 275 280 285
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Asn Met Phe Glu
 290 295 300
 Lys Leu Val Val Thr Lys Leu Ile Tyr His
 305 310

<210> 47
 <211> 942
 <212> DNA
 <213> Homo Sapiens

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<220>
<221> CDS
<222> (1)...(939)
<223>

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Met Leu Leu Thr Asp Arg Asn Thr Ser Gly Thr Thr Phe Thr Leu Leu
1 5 10 15

ggc ttc tca gat tac cca gaa ctg caa gtc cca ctc ttc ctg gtt ttt 96
Gly Phe Ser Asp Tyr Pro Glu Leu Gln Val Pro Leu Phe Leu Val Phe
20 25 30

ctg gcc atc tac aat gtc act gtg cta ggg aat att ggg ttg att gtg 144
Leu Ala Ile Tyr Asn Val Thr Val Leu Gly Asn Ile Gly Leu Ile Val
35 40 45

atc atc aaa atc aac ccc aaa ctg cat acc ccc atg tac ttt ttc ctc 192
Ile Ile Lys Ile Asn Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu
50 55 60

agc caa ctc tcc ttt gtg gat ttc tgc tat tcc tcc atc att gct ccc 240
Ser Gln Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Ala Pro
65 70 75 80

aag atg ttg gtg aac ctt gtt gtc aaa gac aga acc att tca ttt tta 288
Lys Met Leu Val Asn Leu Val Val Lys Asp Arg Thr Ile Ser Phe Leu
85 90 95

gga tgc gta gta caa ttc ttt ttc ttc tgt acc ttt gtg gtc act gaa 336
Gly Cys Val Val Gln Phe Phe Phe Cys Thr Phe Val Val Thr Glu
100 105 110

tcc ttt tta tta gct gtg atg gcc tat gac cgc ttc gtg gcc att tgc 364
Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
115 120 125

aac cct ctg ctc tac aca gtt gac atg tcc cag aaa ctc tgc gtg ctg 432
Asn Pro Leu Leu Tyr Thr Val Asp Met Ser Gln Lys Leu Cys Val Leu
130 135 140

ctg gtt gtg gga tcc tat gcc tgg gga gtc tca tgt tcc ttg gaa ctg 480
Leu Val Val Gly Ser Tyr Ala Trp Gly Val Ser Cys Ser Leu Glu Leu
145 150 155 160

acg tgc tct gct tta aag tta tgt ttt cat ggt ttc aac aca atc aat 528
Thr Cys Ser Ala Leu Lys Leu Cys Phe His Gly Phe Asn Thr Ile Asn
165 170 175

cac ttc ttc tgt gag ttc tcc tca cta ctc tcc ctt tct tgc tct gat 576
His Phe Phe Cys Glu Phe Ser Ser Leu Leu Ser Leu Ser Cys Ser Asp
180 185 190

act tac atc aac cag tgg ctg cta ttc ttt ott gcc acc ttt aat gaa 624
Thr Tyr Ile Asn Gln Trp Leu Leu Phe Phe Leu Ala Thr Phe Asn Glu
195 200 205

atc agc aca cta ctc atc gtt ctc aca tct tat gcg ttc att gtt gta 672
Ile Ser Thr Leu Leu Ile Val Leu Thr Ser Tyr Ala Phe Ile Val Val

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210 215 220
 acc atc ctc aag atg cgt tca gtc agt ggg cgc cgc aaa gcc ttc tcc 720
 Thr Ile Leu Lys Met Arg Ser Val Ser Gly Arg Arg Lys Ala Phe Ser
 225 230 235 240
 acc tgt gcc tcc cac ctg act gcc atc acc atc ttc cat gcc acc atc 768
 Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile
 245 250 255
 ctc ttc ctt tac tgt gtg ccc aac tcc aaa aac tcc agg cac aca gtc 816
 Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg His Thr Val
 260 265 270
 aaa gtg gcc tct gtg ttt tac acc gtg gtg atc ccc atg ttg aat ccc 854
 Lys Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
 275 280 285
 ctg atc tac agt ctg aga aat aaa gat gtc aag gat aca gtc acc gag 912
 Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Thr Val Thr Glu
 290 295 300
 ata ctg gac acc aaa gtc ttc tct tac tga 942
 Ile Leu Asp Thr Lys Val Phe Ser Tyr
 305 310

 <210> 48
 <211> 313
 <212> PRT
 <213> Homo Sapiens

 <400> 48
 Met Leu Leu Thr Asp Arg Asn Thr Ser Gly Thr Thr Phe Thr Leu Leu
 1 5 10 15
 Gly Phe Ser Asp Tyr Pro Glu Leu Gln Val Pro Leu Phe Leu Val Phe
 20 25 30
 Leu Ala Ile Tyr Asn Val Thr Val Leu Gly Asn Ile Gly Leu Ile Val
 35 40 45
 Ile Ile Lys Ile Asn Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Gln Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Ala Pro
 65 70 75 80
 Lys Met Leu Val Asn Leu Val Val Lys Asp Arg Thr Ile Ser Phe Leu
 85 90 95
 Gly Cys Val Val Gln Phe Phe Phe Phe Cys Thr Phe Val Val Thr Glu
 100 105 110

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PCT/BE01/00162

Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
 115 120 125
 Asn Pro Leu Leu Tyr Thr Val Asp Met Ser Gln Lys Leu Cys Val Leu
 130 135 140
 Leu Val Val Gly Ser Tyr Ala Trp Gly Val Ser Cys Ser Leu Glu Leu
 145 150 155 160
 Thr Cys Ser Ala Leu Lys Leu Cys Phe His Gly Phe Asn Thr Ile Asn
 165 170 175
 His Phe Phe Cys Glu Phe Ser Ser Leu Leu Ser Leu Ser Cys Ser Asp
 180 185 190
 Thr Tyr Ile Asn Gln Trp Leu Leu Phe Phe Leu Ala Thr Phe Asn Glu
 195 200 205
 Ile Ser Thr Leu Leu Ile Val Leu Thr Ser Tyr Ala Phe Ile Val Val
 210 215 220
 Thr Ile Leu Lys Met Arg Ser Val Ser Gly Arg Arg Lys Ala Phe Ser
 225 230 235 240
 Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile
 245 250 255
 Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg His Thr Val
 260 265 270
 Lys Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
 275 280 285
 Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Thr Val Thr Glu
 290 295 300
 Ile Leu Asp Thr Lys Val Phe Ser Tyr
 305 310

<210> 49
 <211> 951
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(948)

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PCT/BE01/00162

<223>

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1 5 10 15

ttt aca aac aac ccc gag atg caa gtt tcc ctc ttt att ttt ttc ctg 96
Phe Thr Asn Asn Pro Glu Met Gln Val Ser Leu Phe Ile Phe Phe Leu
20 25 30

gcc att tat aca gtc act ttg ttg ggc aac ttt ctt att gtc aca gtt 144
Ala Ile Tyr Thr Val Thr Leu Leu Gly Asn Phe Leu Ile Val Thr Val
35 40 45

acc agt gtg gat ctc gca ctt caa aca ccc atg tac ttc ttt ctt caa 192
Thr Ser Val Asp Leu Ala Leu Gln Thr Pro Met Tyr Phe Phe Leu Gln
50 55 60

aat ctg tca ctt ctt gaa gta tgt ttc acc ttg gtt atg gtg cca aaa 240
Asn Leu Ser Leu Leu Glu Val Cys Phe Thr Leu Val Met Val Pro Lys
65 70 75 80

atg ctt gta gat cta gtg tcc cca agg aaa att atc tct ttt gtg ggc 288
Met Leu Val Asp Leu Val Ser Pro Arg Lys Ile Ile Ser Phe Val Gly
85 90 95

tgt ggt acc cag atg tac ttc ttc ttc ttc ttt ggc agt tct gaa tgt 336
Cys Gly Thr Gln Met Tyr Phe Phe Phe Phe Phe Gly Ser Ser Glu Cys
100 105 110

ttc ctt ctc tcc atg atg gct tat gat cgc ttt gtg gcc atc tgt aac 384
Phe Leu Leu Ser Met Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn
115 120 125

cct ctc cat tat tca gtc ata atg aac agg tcc cta tgc ttg tgg atg 432
Pro Leu His Tyr Ser Val Ile Met Asn Arg Ser Leu Cys Leu Trp Met
130 135 140

gcc ata ggc tct tgg atg tcc ggt gtt cct gtg tct atg cta cag aca 480
Ala Ile Gly Ser Trp Met Ser Gly Val Pro Val Ser Met Leu Gln Thr
145 150 155 160

gct tgg atg atg gcc ctt cct ttc tgt gga cca aat gcc gtg gac cac 528
Ala Trp Met Met Ala Leu Pro Phe Cys Gly Pro Asn Ala Val Asp His
165 170 175

ttt ttc tgt gat ggt ccc cca gtg tta aaa cta gtc aca gtg gat aca 576
Phe Phe Cys Asp Gly Pro Pro Val Leu Lys Leu Val Thr Val Asp Thr
180 185 190

acc atg tat gaa atg daa gca ctt gcc tcc aca ctc ctg ttt atc atg 624
Thr Met Tyr Glu Met Gln Ala Leu Ala Ser Thr Leu Leu Phe Ile Met
195 200 205

ttt ccc ttt tgt ctc att ttg gtt tcc tac acc cgc att atc ata aca 672
Phe Pro Phe Cys Leu Ile Leu Val Ser Tyr Thr Arg Ile Ile Ile Thr
210 215 220

att ctg agg atg tcc tct gcc act ggc cgc cag aag gca ttt tct act 720

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11e Leu Arg Met Ser Ser Ala Thr Gly Arg Gln Lys Ala Phe Ser Thr
225                230                235                240

tgt tcc tca cac ctc att gtg gtg tcc ctc ttc tac gga aca gcc agt      768
Cys Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ser
                245                250                255

ctg acc tac ctg cgg ccc aaa tca aac cag tcc cct gag agc aag aag      816
Leu Thr Tyr Leu Arg Pro Lys Ser Asn Gln Ser Pro Glu Ser Lys Lys
                260                265                270

cta gtg tca ttg tcc tac act gtc atc aca cct atg cta aac ooc atc      864
Leu Val Ser Leu Ser Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile
                275                280                285

atc tac ggc ctg agg aac aat gaa gtg aaa ggg gct gtc aag agg aca      912
Ile Tyr Gly Leu Arg Asn Asn Glu Val Lys Gly Ala Val Lys Arg Thr
                290                295                300

atc act caa aaa gtc tta cag aag tta gat gtg ttt tga      951
11e Thr Gln Lys Val Leu Gln Lys Leu Asp Val Phe
305                310                315

<210> 50
<211> 316
<212> PRT
<213> Homo Sapiens

<400> 50

Met ile Cys Glu Asn His Thr Arg Val Thr Glu Phe ile Leu Leu Gly
1      5      10      15

Phe Thr Asn Asn Pro Glu Met Gln Val Ser Leu Phe ile Phe Phe Leu
20     25     30

Ala ile Tyr Thr Val Thr Leu Leu Gly Asn Phe Leu ile Val Thr Val
35     40     45

Thr Ser Val Asp Leu Ala Leu Gln Thr Pro Met Tyr Phe Phe Leu Gln
50     55     60

Asn Leu Ser Leu Leu Glu Val Cys Phe Thr Leu Val Met Val Pro Lys
65     70     75     80

Met Leu Val Asp Leu Val Ser Pro Arg Lys Ile Ile Ser Phe Val Gly
85     90     95

Cys Gly Thr Gln Met Tyr Phe Phe Phe Phe Gly Ser Ser Glu Cys
100    105    110

Phe Leu Leu Ser Met Met Ala Tyr Asp Arg Phe Val Ala ile Cys Asn
115    120    125

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Pro Leu His Tyr Ser Val Ile Met Asn Arg Ser Leu Cys Leu Trp Met
 130 135 140
 Ala Ile Gly Ser Trp Met Ser Gly Val Pro Val Ser Met Leu Gln Thr
 145 150 155 160
 Ala Trp Met Met Ala Leu Pro Phe Cys Gly Pro Asn Ala Val Asp His
 165 170 175
 Phe Phe Cys Asp Gly Pro Pro Val Leu Lys Leu Val Thr Val Asp Thr
 180 185 190
 Thr Met Tyr Glu Met Gln Ala Leu Ala Ser Thr Leu Leu Phe Ile Met
 195 200 205
 Phe Pro Phe Cys Leu Ile Leu Val Ser Tyr Thr Arg Ile Ile Ile Thr
 210 215 220
 Ile Leu Arg Met Ser Ser Ala Thr Gly Arg Gln Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ser
 245 250 255
 Leu Thr Tyr Leu Arg Pro Lys Ser Asn Gln Ser Pro Glu Ser Lys Lys
 260 265 270
 Leu Val Ser Leu Ser Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile
 275 280 285
 Ile Tyr Gly Leu Arg Asn Asn Glu Val Lys Gly Ala Val Lys Arg Thr
 290 295 300
 Ile Thr Gln Lys Val Leu Gln Lys Leu Asp Val Phe
 305 310 315

<210> 51
 <211> 942
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
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PCT/BE01/00162

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Met Gly Asp Arg Gly Thr Ser Asn His Ser Glu Met Thr Asp Phe Ile
1      5      10      15

ctt gca ggc ttc agg gta cgc cca gag ctg cac att ctg ctg ttc ctg      96
Leu Ala Gly Phe Arg Val Arg Pro Glu Leu His Ile Leu Leu Phe Leu
20      25      30

cta ttt ttg ttt gtt tat gcc atg atc ctt cta ggg aat gtt ggg atg      144
Leu Phe Leu Phe Val Tyr Ala Met Ile Leu Leu Gly Asn Val Gly Met
35      40      45

atg ecc att att atg act gat cct cgg ctg aac aca cca atg tat ttt      192
Met Thr Ile Ile Met Thr Asp Pro Arg Leu Asn Thr Pro Met Tyr Phe
50      55      60

ttc cta ggc aat ctg tcc ttc att gat ctt ttc tat tca tct gtt att      240
Phe Leu Gly Asn Leu Ser Phe Ile Asp Leu Phe Tyr Ser Ser Val Ile
65      70      75      80

gaa ccc aag gct atg atc aac ttc tgg tct gaa aac aag tct atc tcc      288
Glu Pro Lys Ala Met Ile Asn Phe Trp Ser Glu Asn Lys Ser Ile Ser
85      90      95

ttt gca ggc tgt gtg gcc cag ctg ttt ctg ttt gcc ctg ctg att gtg      336
Phe Ala Gly Cys Val Ala Gln Leu Phe Leu Phe Ala Leu Leu Ile Val
100      105      110

act gag gga ttt ctg ctg gcg gcc atg gct tat gac cgc ttt att gcc      384
Thr Glu Gly Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Phe Ile Ala
115      120      125

atc tgc aac cct ctg ctg tac tct gtt caa atg tcc aca cgt ctg tgt      432
Ile Cys Asn Pro Leu Leu Tyr Ser Val Gln Met Ser Thr Arg Leu Cys
130      135      140

act cag ttg gtg gct ggt tcc tat ttt tgt ggc tgc att agc tca gtt      480
Thr Gln Leu Val Ala Gly Ser Tyr Phe Cys Gly Cys Ile Ser Ser Val
145      150      155      160

att cag act agc atg aca ttt act tta tct ttt tgc gct tct cgg gct      528
Ile Gln Thr Ser Met Thr Phe Thr Leu Ser Phe Cys Ala Ser Arg Ala
165      170      175

gtt gac cac ttt tac tgt gat tct cgc cca ctt cag aga ctg tct tgt      576
Val Asp His Phe Tyr Cys Asp Ser Arg Pro Leu Gln Arg Leu Ser Cys
180      185      190

tct gat ctg ttt atc cat aga atg ata tct ttt tcc tta tca tgt att      624
Ser Asp Leu Phe Ile His Arg Met Ile Ser Phe Ser Leu Ser Cys Ile
195      200      205

att atc ttg cct act atc ata gtc att ata gta tct tac atg tat att      672
Ile Ile Leu Pro Thr Ile Ile Val Ile Ile Val Ser Tyr Met Tyr Ile
210      215      220

gtg tcc aca gtt cta aag ata cat tct act gag gga cat aag aag gcc      720
Val Ser Thr Val Leu Lys Ile His Ser Thr Glu Gly His Lys Lys Ala
225      230      235      240

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ttc tcc acc tgc agc tct cac ctg gga gtt gtg agt gtg ctg tat ggt      768
Phe Ser Thr Cys Ser Ser His Leu Gly Val Val Ser Val Leu Tyr Gly
      245      250      255

gct gtc ttt ttt atg tat ctc act cct gac aga ttt cct gag ctg agt      816
Ala Val Phe Phe Met Tyr Leu Thr Pro Asp Arg Phe Pro Glu Leu Ser
      260      265      270

aaa gtg gca tcc tta tgt tac tcc cta gtc act ccc atg ttg aat cct      864
Lys Val Ala Ser Leu Cys Tyr Ser Leu Val Thr Pro Met Leu Asn Pro
      275      280      285

tgg att tac tct ctg agg aac aaa gat gtc caa gag gct cta aaa aaa      912
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Gln Glu Ala Leu Lys Lys
      290      295      300

ttt cta gag aag aaa aat att att ctt tga      942
Phe Leu Glu Lys Lys Asn Ile Ile Leu
305      310

<210> 52
<211> 213
<212> PRT
<213> Homo Sapiens

<400> 52
Met Gly Asp Arg Gly Thr Ser Asn His Ser Glu Met Thr Asp Phe Ile
1      5      10      15

Leu Ala Gly Phe Arg Val Arg Pro Glu Leu His Ile Leu Leu Phe Leu
20      25      30

Leu Phe Leu Phe Val Tyr Ala Met Ile Leu Leu Gly Asn Val Gly Met
35      40      45

Met Thr Ile Ile Met Thr Asp Pro Arg Leu Asn Thr Pro Met Tyr Phe
50      55      60

Phe Leu Gly Asn Leu Ser Phe Ile Asp Leu Phe Tyr Ser Ser Val Ile
65      70      75      80

Glu Pro Lys Ala Met Ile Asn Phe Trp Ser Glu Asn Lys Ser Ile Ser
85      90      95

Phe Ala Gly Cys Val Ala Gln Leu Phe Leu Phe Ala Leu Leu Ile Val
100      105      110

Thr Glu Gly Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Phe Ile Ala
115      120      125

Ile Cys Asn Pro Leu Leu Tyr Ser Val Gln Met Ser Thr Arg Leu Cys

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PCT/BE01/00162

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      130              135              140
Thr  Gln  Leu  Val  Ala  Gly  Ser  Tyr  Phe  Cys  Gly  Cys  Ile  Ser  Ser  Val
145              150              155              160

Ile  Gln  Thr  Ser  Met  Thr  Phe  Thr  Leu  Ser  Phe  Cys  Ala  Ser  Arg  Ala
165              170              175

Val  Asp  His  Phe  Tyr  Cys  Asp  Ser  Arg  Pro  Leu  Gln  Arg  Leu  Ser  Cys
180              185              190

Ser  Asp  Leu  Phe  Ile  His  Arg  Met  Ile  Ser  Phe  Ser  Leu  Ser  Cys  Ile
195              200              205

Ile  Ile  Leu  Pro  Thr  Ile  Ile  Val  Ile  Ile  Val  Ser  Tyr  Met  Tyr  Ile
210              215              220

Val  Ser  Thr  Val  Leu  Lys  Ile  His  Ser  Thr  Glu  Gly  His  Lys  Lys  Ala
225              230              235              240

Phe  Ser  Thr  Cys  Ser  Ser  His  Leu  Gly  Val  Val  Ser  Val  Leu  Tyr  Gly
245              250              255

Ala  Val  Phe  Phe  Met  Tyr  Leu  Thr  Pro  Asp  Arg  Phe  Pro  Glu  Leu  Ser
260              265              270

Lys  Val  Ala  Ser  Leu  Cys  Tyr  Ser  Leu  Val  Thr  Pro  Met  Leu  Asn  Pro
275              280              285

Leu  Ile  Tyr  Ser  Leu  Arg  Asn  Lys  Asp  Val  Gln  Glu  Ala  Leu  Lys  Lys
290              295              300

Phe  Leu  Glu  Lys  Lys  Asn  Ile  Ile  Leu
305              310

<210>  53
<211>  957
<212>  DNA
<213>  Homo Sapiens

<220>
<221>  CDS
<222>  (1)..(954)
<223>

<400>  53
atg aag aat gtc act gaa gtt acc tta ttt gta ctg aag ggc ttc aca      48
Met Iys Asn Val Thr Glu Val Thr Leu Phe Val Leu Lys Gly Phe Thr

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1	5	10	15	
gac aat ctt gaa ctg cag act atc ttc ttc ttc ctg ttt cta gca atc	96			
Asp Asn Leu Glu Leu Gln Thr Ile Phe Phe Phe Leu Phe Leu Ala Ile				
20	25	30		
tac ctc ttc act ctc atg gga aat tta gga ctg att tta gtg gtc att	144			
Tyr Leu Phe Thr Leu Met Gly Asn Leu Gly Leu Ile Leu Val Val Ile				
35	40	45		
agg gat tcc cag ctc cac aaa ccc atg tac tat ttt ctg agt atg ttg	192			
Arg Asp Ser Gln Leu His Lys Pro Met Tyr Tyr Phe Leu Ser Met Leu				
50	55	60		
tct tct gtg gat gcc tgc tat tcc tca gtt att acc cca aat atg tta	240			
Ser Ser Val Asp Ala Cys Tyr Ser Ser Val Ile Thr Pro Asn Met Leu				
65	70	75	80	
gta gat ttt acg aca aag aat aaa gtc att tca ttc ctt gga tgt gta	288			
Val Asp Phe Thr Thr Lys Asn Lys Val Ile Ser Phe Leu Gly Cys Val				
85	90	95		
gca cag gtg ttt ctt gct tgt agt ttt gga acc aca gaa tgc ttt ctc	336			
Ala Gln Val Phe Leu Ala Cys Ser Phe Gly Thr Thr Glu Cys Phe Leu				
100	105	110		
ttg gct gca atg gct tat gat cgc tat gta gcc atc tac aac cct ctc	384			
Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr Asn Pro Leu				
115	120	125		
ctg tat tca gtg agc atg tca ccc aga gtc tac atg cca ctc atc aat	432			
Leu Tyr Ser Val Ser Met Ser Pro Arg Val Tyr Met Pro Leu Ile Asn				
130	135	140		
gct tcc tat gtt gct ggc att tta cat gct act ata cat aca gtg gct	480			
Ala Ser Tyr Val Ala Gly Ile Leu His Ala Thr Ile His Thr Val Ala				
145	150	155	160	
aca ttt agc cta tcc ttc tgt gga gcc aat gaa att agg cgt gtc ttt	528			
Thr Phe Ser Leu Ser Phe Cys Gly Ala Asn Glu Ile Arg Arg Val Phe				
165	170	175		
tgt gat atc cct cct ctc ctt gct att tct tat tct gac act cac aca	576			
Cys Asp Ile Pro Pro Leu Leu Ala Ile Ser Tyr Ser Asp Thr His Thr				
180	185	190		
aac cag ctt cta ctc ttc tac ttt gtg ggc tct atc gag ctg gtc act	624			
Asn Gln Leu Leu Leu Phe Tyr Phe Val Gly Ser Ile Glu Leu Val Thr				
195	200	205		
atc ctg att gtt ctg atc tcc tat ggt ttg att ctg ttg gcc att ctg	672			
Ile Leu Ile Val Leu Ile Ser Tyr Gly Leu Ile Leu Leu Ala Ile Leu				
210	215	220		
aag atg tat tct gct gaa ggg agg aga aaa gtc ttc tcc aca tgt gga	720			
Lys Met Tyr Ser Ala Glu Gly Arg Arg Lys Val Phe Ser Thr Cys Gly				
225	230	235	240	
gct cac cta act gga gtg tca att tat tat ggg aca atc ctc ttc atg	768			
Ala His Leu Thr Gly Val Ser Ile Tyr Tyr Gly Thr Ile Leu Phe Met				
245	250	255		

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tat gtg aga cca agt tcc agc tat gct tgg gac cat gac atg ata gtg      816
Tyr Val Arg Pro Ser Ser Ser Tyr Ala Ser Asp His Asp Met Ile Val
      260      265      270

tca ata ttt tac acc att gtg att ccc ttg ctg aat ccc gtc atc tac      864
Ser Ile Phe Tyr Thr Ile Val Ile Pro Leu Leu Asn Pro Val Ile Tyr
      275      280      285

agt ttg agg aac aaa gat gta aaa gac tca atg aaa aaa atg ttt ggg      912
Ser Leu Arg Asn Lys Asp Val Lys Asp Ser Met Lys Lys Met Phe Gly
      290      295      300

aaa aat cag gtt atc aat aaa gta tat ttt cat act aaa aaa taa      957
Lys Asn Gln Val Ile Asn Lys Val Tyr Phe His Thr Lys Lys
      305      310      315

<210> 54
<211> 318
<212> PRT
<213> Homo Sapiens

<400> 54
Met Lys Asn Val Thr Glu Val Thr Leu Phe Val Leu Lys Gly Phe Thr
1      5      10      15

Asp Asn Leu Glu Leu Gln Thr Ile Phe Phe Phe Leu Phe Leu Ala Ile
20      25      30

Tyr Leu Phe Thr Leu Met Gly Asn Leu Gly Leu Ile Leu Val Val Ile
35      40      45

Arg Asp Ser Gln Leu His Lys Pro Met Tyr Tyr Phe Leu Ser Met Leu
50      55      60

Ser Ser Val Asp Ala Cys Tyr Ser Ser Val Ile Thr Pro Asn Met Leu
65      70      75      80

Val Asp Phe Thr Thr Lys Asn Lys Val Ile Ser Phe Leu Gly Cys Val
85      90      95

Ala Gln Val Phe Leu Ala Cys Ser Phe Gly Thr Thr Glu Cys Phe Leu
100     105     110

Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr Asn Pro Leu
115     120     125

Leu Tyr Ser Val Ser Met Ser Pro Arg Val Tyr Met Pro Leu Ile Asn
130     135     140

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PCT/BE01/00162

Ala Ser Tyr Val Ala Gly Ile Leu His Ala Thr Ile His Thr Val Ala
145 150 155 160

Thr Phe Ser Leu Ser Phe Cys Gly Ala Asn Glu Ile Arg Arg Val Phe
165 170 175

Cys Asp Ile Pro Pro Leu Leu Ala Ile Ser Tyr Ser Asp Thr His Thr
180 185 190

Asn Gln Leu Leu Leu Phe Tyr Phe Val Gly Ser Ile Glu Leu Val Thr
195 200 205

Ile Leu Ile Val Leu Ile Ser Tyr Gly Leu Ile Leu Leu Ala Ile Leu
210 215 220

Lys Met Tyr Ser Ala Glu Gly Arg Arg Lys Val Phe Ser Thr Cys Gly
225 230 235 240

Ala His Leu Thr Gly Val Ser Ile Tyr Tyr Gly Thr Ile Leu Phe Met
245 250 255

Tyr Val Arg Pro Ser Ser Ser Tyr Ala Ser Asp His Asp Met Ile Val
260 265 270

Ser Ile Phe Tyr Thr Ile Val Ile Pro Leu Leu Asn Pro Val Ile Tyr
275 280 285

Ser Leu Arg Asn Lys Asp Val Lys Asp Ser Met Lys Lys Met Phe Gly
290 295 300

Lys Asn Gln Val Ile Asn Lys Val Tyr Phe His Thr Lys Lys
305 310 315

<210> 55
<211> 969
<212> DNA
<213> Homo Sapiens

<220>
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<222> (1)..(966)
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<400> 55
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Met Asp Lys Leu Ser Ser Gly Leu Asp Ile Tyr Arg Asn Pro Leu Lys
1 5 10 15
aac aag act gaa gtc acc atg ttt ata ttg aca ggc ttc aca gat gat 96

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PCT/BE01/00162

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Asn Lys Thr Glu Val Thr Met Phe Ile Leu Thr Gly Phe Thr Asp Asp
      20                25                30
ttt gag ctg caa gtc ttc cta ttt tta cta ttt ttt gca atc tat ctc    144
Phe Glu Leu Gln Val Phe Leu Phe Leu Leu Phe Phe Ala Ile Tyr Leu
      35                40                45
ttt acc ttg ata ggc aat tta ggg ctg gtt gtg ttg gtc att gag gat    192
Phe Thr Leu Ile Gly Asn Leu Gly Leu Val Val Leu Val Ile Glu Asp
      50                55                60
tcc tgg ctc cac sac ccc atg tat tat ttt ctt agt gtt tta tca ttc    240
Ser Trp Leu His Asn Pro Met Tyr Tyr Phe Leu Ser Val Leu Ser Phe
      65                70                75                80
ttg gat gct tgc tat tct aca gtt gtc act cca aaa atg ttg gtc aat    288
Leu Asp Ala Cys Tyr Ser Thr Val Val Thr Pro Lys Met Leu Val Asn
      85                90                95
ttc ctg gca aaa aat aaa tcc att tca ttt atc gga tgt gca aca cag    336
Phe Leu Ala Lys Asn Lys Ser Ile Ser Phe Ile Gly Cys Ala Thr Gln
      100                105                110
atg ctt ctt ttt gtt act ttt gga act aca gaa tgt ttt ctc ttg gct    384
Met Leu Leu Phe Val Thr Phe Gly Thr Thr Glu Cys Phe Leu Leu Ala
      115                120                125
gca atg gct tat gat cac tat gta gcc atc tac aac cct ctc ctg tat    432
Ala Met Ala Tyr Asp His Tyr Val Val Ala Ile Tyr Asn Pro Leu Leu Tyr
      130                135                140
tca gtg agc atg tca ccc aga gtc tat gtg cca ctc atc act got tcc    480
Ser Val Ser Met Ser Pro Arg Val Tyr Val Pro Leu Ile Thr Ala Ser
      145                150                155                160
tac gtt gct ggc att tta cat gct act ata cat ata gtg gct aca ttt    528
Tyr Val Ala Gly Ile Leu His Ala Thr Ile His Ile Val Ala Thr Phe
      165                170                175
agc ctg tcc ttc tgt gga tcc aat gaa att agg cat gtc ttt tgt gat    576
Ser Leu Ser Phe Cys Gly Ser Asn Glu Ile Arg His Val Phe Cys Asp
      180                185                190
atg cct cct ctc ctt gct att tct tgt tct gac act cac aca aac cag    624
Met Pro Pro Leu Leu Ala Ile Ser Cys Ser Asp Thr His Thr Asn Gln
      195                200                205
ctt cta ctc ttc tac ttt gtg ggt tct att gag ata gtc act atc ctg    672
Leu Leu Leu Phe Tyr Phe Val Gly Ser Ile Glu Ile Val Thr Ile Leu
      210                215                220
att gtc ctc att tcc tgt gat ttc att ctg ttg tcc att ctg aag atg    720
Ile Val Leu Ile Ser Cys Asp Phe Ile Leu Leu Ser Ile Leu Lys Met
      225                230                235                240
cat tct gct aag gga agg caa aag gcc ttc tct aca tgt ggc tct cac    768
His Ser Ala Lys Gly Arg Gln Lys Ala Phe Ser Thr Cys Gly Ser His
      245                250                255
cta act gga gtg aca att tat cat gga aca att ctc gtc agt tat atg    816
Leu Thr Gly Val Thr Ile Tyr His Gly Thr Ile Leu Val Ser Tyr Met

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WO 02/24726

PCT/BE01/00162

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260          265          270
aga cca agt tcc agc tat gct tca gac cat gac atc ata gtg tca ata      864
Arg Pro Ser Ser Ser Tyr Ala Ser Asp His Asp Ile Ile Val Ser Ile
275          280          285

ttt tac aca att gtg att ccc aag ttg aat ccc atc atc tat agt ttg      912
Phe Tyr Thr Ile Val Ile Pro Lys Leu Asn Pro Ile Ile Tyr Ser Leu
290          295          300

agg aac aaa gaa gta aaa aag gca gtg aag aaa atg ttg aaa ttg gtt      960
Arg Asn Lys Glu Val Lys Lys Ala Val Lys Lys Met Leu Lys Leu Val
305          310          315          320

tac aaa tga      969
Tyr Lys

<210> 56
<211> 322
<212> PRT
<213> Homo Sapiens

<400> 56
Met Asp Lys Leu Ser Ser Gly Leu Asp Ile Tyr Arg Asn Pro Leu Lys
1          5          10          15

Asn Lys Thr Glu Val Thr Met Phe Ile Leu Thr Gly Phe Thr Asp Asp
20          25          30

Phe Glu Leu Glu Val Phe Leu Phe Leu Leu Phe Phe Ala Ile Tyr Leu
35          40          45

Phe Thr Leu Ile Gly Asn Leu Gly Leu Val Val Leu Val Ile Glu Asp
50          55          60

Ser Trp Leu His Asn Pro Met Tyr Tyr Phe Leu Ser Val Leu Ser Phe
65          70          75          80

Leu Asp Ala Cys Tyr Ser Thr Val Val Thr Pro Lys Met Leu Val Asn
85          90          95

Phe Leu Ala Lys Asn Lys Ser Ile Ser Phe Ile Gly Cys Ala Thr Glu
100          105          110

Met Leu Leu Phe Val Thr Phe Gly Thr Thr Glu Cys Phe Leu Leu Ala
115          120          125

Ala Met Ala Tyr Asp His Tyr Val Ala Ile Tyr Asn Pro Leu Leu Tyr
130          135          140

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WO 02/24726

PCT/BE01/00162

Ser Val Ser Met Ser Pro Arg Val Tyr Val Pro Leu Ile Thr Ala Ser
 145 150 155 160

Tyr Val Ala Gly Ile Leu His Ala Thr Ile His Ile Val Ala Thr Phe
 165 170 175

Ser Leu Ser Phe Cys Gly Ser Asn Glu Ile Arg His Val Phe Cys Asp
 180 185 190

Met Pro Pro Leu Leu Ala Ile Ser Cys Ser Asp Thr His Thr Asn Gln
 195 200 205

Leu Leu Leu Phe Tyr Phe Val Gly Ser Ile Glu Ile Val Thr Ile Leu
 210 215 220

Ile Val Leu Ile Ser Cys Asp Phe Ile Leu Leu Ser Ile Leu Lys Met
 225 230 235 240

His Ser Ala Lys Gly Arg Gln Lys Ala Phe Ser Thr Cys Gly Ser His
 245 250 255

Leu Thr Gly Val Thr Ile Tyr His Gly Thr Ile Leu Val Ser Tyr Met
 260 265 270

Arg Pro Ser Ser Ser Tyr Ala Ser Asp His Asp Ile Ile Val Ser Ile
 275 280 285

Phe Tyr Thr Ile Val Ile Pro Lys Leu Asn Pro Ile Ile Tyr Ser Leu
 290 295 300

Arg Asn Lys Glu Val Lys Lys Ala Val Lys Lys Met Leu Lys Leu Val
 305 310 315 320

Tyr Lys

<210> 57
 <211> 960
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)...(957)
 <223>

<400> 57

WO 02/24726

PCT/BE01/00162

atg aat cat gtg gta aaa cac aat cac acg gca gtg acc aag gtg act	48
Met Asn His Val Val Lys His Asn His Thr Ala Val Thr Lys Val Thr	
1 5 10 15	
gaa ttt att ctc atg ggg att aca gac aac cct ggg ctg cag gct cca	96
Glu Phe Ile Leu Met Gly Ile Thr Asp Asn Pro Gly Leu Gln Ala Pro	
20 25 30	
ctg ttt gga ctc ttc ctc atc ata tat ctg gtc aca gtg ata ggc aat	144
Leu Phe Gly Leu Phe Leu Ile Ile Tyr Leu Val Thr Val Ile Gly Asn	
35 40 45	
ctg ggc atg gtt atc ttg acc tac ttg gac tcc aag cta cac acc ccc	192
Leu Gly Met Ile Leu Thr Tyr Leu Asp Ser Lys Leu His Thr Pro	
50 55 60	
atg tac ttt ttc ctt aga cat ttg tca atc act gat ctt ggt tac tcc	240
Met Tyr Phe Phe Leu Arg His Leu Ser Ile Thr Asp Leu Gly Tyr Ser	
65 70 75 80	
act gtc att gcc cgg aag atg tta gta aac ttc ata gtg cac aaa aac	288
Thr Val Ile Ala Pro Lys Met Leu Val Asn Phe Ile Val His Lys Asn	
85 90 95	
aca att tct tac aat tgg tat gcc act cag cta gca ttc ttt gag att	336
Thr Ile Ser Tyr Asn Trp Tyr Ala Thr Gln Leu Ala Phe Phe Glu Ile	
100 105 110	
ttc atc atc tct gag ctc ttt att cta tca gca atg gcc tat gat cgc	384
Phe Ile Ile Ser Glu Leu Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg	
115 120 125	
tac gta gcc atc tgt aac cct ctt ctg tac gtg atc atc atg gca gag	432
Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Val Ile Ile Met Ala Glu	
130 135 140	
aaa gta ctt tgg gtg ctg gta att gtt ccc tat ctc tat agc acg ttt	480
Lys Val Leu Trp Val Leu Val Ile Val Pro Tyr Leu Tyr Ser Thr Phe	
145 150 155 160	
gtg tca cta ttt ctc aca att aag tta ttt aaa ctg tcc ttc tgt ggc	528
Val Ser Leu Phe Leu Thr Ile Lys Leu Phe Lys Leu Ser Phe Cys Gly	
165 170 175	
tca aac ata atc agc tat ttt tac tgt gac tgt atc cct ctg atg tcc	576
Ser Asn Ile Ile Ser Tyr Phe Tyr Cys Asp Cys Ile Pro Leu Met Ser	
180 185 190	
ata ctc tgt tct gac aca aat gaa tta gaa tta ata att ttg atc ttc	624
Ile Leu Cys Ser Asp Thr Asn Glu Leu Glu Leu Ile Ile Leu Ile Phe	
195 200 205	
tca ggc tgt aat ttg ctc ttc tcc ctc tca att gtt ctc ata tcc tac	672
Ser Gly Cys Asn Leu Leu Phe Ser Leu Ser Ile Val Leu Ile Ser Tyr	
210 215 220	
atg ttt att cta gtg gcc att ctc aga atg aac tca agg aaa ggg agg	720
Met Phe Ile Leu Val Ala Ile Leu Arg Met Asn Ser Arg Lys Gly Arg	
225 230 235 240	
tac aaa gcc ttc tcc acc tgt agc tct cat ctg aca gtg gtg atc atg	768

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Tyr Lys Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Met
      245                250                255

ttc tat ggg aca ttg tta ttt att tac ttg caa ccc aag tcc agt cat      816
Phe Tyr Gly Thr Leu Leu Phe Ile Tyr Leu Gln Pro Lys Ser Ser His
      260                265                270

act ttg gct att gat aaa atg gcc tca gtg ttt tat acc ctg ttg att      864
Thr Leu Ala Ile Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Leu Ile
      275                280                285

cct atg ctg aat ccg ttg atc tac agc cta agg aac aaa gaa gta aaa      912
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys
      290                295                300

gat gct cta aag aga act tta acc aat cga ttc aaa att ccc att taa      960
Asp Ala Leu Lys Arg Thr Leu Thr Asn Arg Phe Lys Ile Pro Ile
      305                310                315

<210> 58
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<212> PRT
<313> Homo Sapiens

<400> 58
Met Asn His Val Val Lys His Asn His Thr Ala Val Thr Lys Val Thr
1      5              10              15

Glu Phe Ile Leu Met Gly Ile Thr Asp Asn Pro Gly Leu Gln Ala Pro
20              25              30

Leu Phe Gly Leu Phe Leu Ile Ile Tyr Leu Val Thr Val Ile Gly Asn
35              40              45

Leu Gly Met Val Ile Leu Thr Tyr Leu Asp Ser Lys Leu His Thr Pro
50              55              60

Met Tyr Phe Phe Leu Arg His Leu Ser Ile Thr Asp Leu Gly Tyr Ser
65              70              75              80

Thr Val Ile Ala Pro Lys Met Leu Val Asn Phe Ile Val His Lys Asn
85              90              95

Thr Ile Ser Tyr Asn Trp Tyr Ala Thr Gln Leu Ala Phe Phe Glu Ile
100             105             110

Phe Ile Ile Ser Glu Leu Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg
115             120             125

Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Val Ile Ile Met Ala Glu
130             135             140

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Lys Val Leu Trp Val Leu Val Ile Val Pro Tyr Leu Tyr Ser Thr Phe
145 150 155 160

Val Ser Leu Phe Leu Thr Ile Lys Leu Phe Lys Leu Ser Phe Cys Gly
165 170 175

Ser Asn Ile Ile Ser Tyr Phe Tyr Cys Asp Cys Ile Pro Leu Met Ser
180 185 190

Ile Leu Cys Ser Asp Thr Asn Glu Leu Glu Leu Ile Ile Leu Ile Phe
195 200 205

Ser Gly Cys Asn Leu Leu Phe Ser Leu Ser Ile Val Leu Ile Ser Tyr
210 215 220

Met Phe Ile Leu Val Ala Ile Leu Arg Met Asn Ser Arg Lys Gly Arg
225 230 235 240

Tyr Lys Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Met
245 250 255

Phe Tyr Gly Thr Leu Leu Phe Ile Tyr Leu Gln Pro Lys Ser Ser His
260 265 270

Thr Leu Ala Ile Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Leu Ile
275 280 285

Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys
290 295 300

Asp Ala Leu Lys Arg Thr Leu Thr Asn Arg Phe Lys Ile Pro Ile
305 310 315

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<211> 939
<212> DNA
<213> Homo Sapiens

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<222> (1)..(936)
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Met Glu Gln His Asn Leu Thr Thr Val Asn Glu Phe Ile Leu Thr Gly
1 5 10 15

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atc aca gat atc gct gag ctg cag gca cca tta ttt gca ttg ttc ctc      96
Ile Thr Asp Ile Ala Glu Leu Gln Ala Pro Leu Phe Ala Leu Phe Leu
      30      25      30

atg atc tat gtg atc tca gtg atg ggc aat ttg ggc atg att gtc ctc      144
Met Ile Tyr Val Ile Ser Val Met Gly Asn Leu Gly Met Ile Val Leu
      35      40      45

acc aag ttg gac tcc agg ttg caa acc cct atg tac ttt ttt ctc aga      192
Thr Lys Leu Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg
      50      55      60

cat ctg gct ttc atg gat ctt ggt tat tca aca act gtg gga ccc aaa      240
His Leu Ala Phe Met Asp Leu Gly Tyr Ser Thr Thr Val Gly Pro Lys
      65      70      75      80

atg tta gta aat ttt gtt gtg gat aag aat ata att tct tat tat ttt      288
Met Leu Val Asn Phe Val Val Asp Lys Asn Ile Ile Ser Tyr Tyr Phe
      85      90      95

tgt gca aca cag cta gct ttc ttt ctt gtg ttc att ggt agt gaa ctt      336
Cys Ala Thr Gln Leu Ala Phe Phe Leu Val Phe Ile Gly Ser Glu Leu
      100      105      110

ttt att ctc tca gcc atg tcc tac gac ctc tat gtg gcc atc tgt aac      384
Phe Ile Leu Ser Ala Met Ser Tyr Asp Leu Tyr Val Ala Ile Cys Asn
      115      120      125

cct ctg cta tcc aca gta atc atg tca cga agg gta tgt cag gtg ctg      432
Pro Leu Leu Tyr Thr Val Ile Met Ser Arg Arg Val Cys Gln Val Leu
      130      135      140

gta gca atc cct tuc ctc tat tgc aca ttc att tct ctt cta gtc acc      480
Val Ala Ile Pro Tyr Leu Tyr Cys Thr Phe Ile Ser Leu Leu Val Thr
      145      150      155      160

ata aag att ttt act tta tcc ttc tgt ggc tac aac gtc att agt cat      528
Ile Lys Ile Phe Thr Leu Ser Phe Cys Gly Tyr Asn Val Ile Ser His
      165      170      175

ttc tac tgt gad agt ctc cct ttg tta cct ttg ctt tgt tca aat aca      576
Phe Tyr Cys Asp Ser Leu Pro Leu Leu Pro Leu Leu Cys Ser Asn Thr
      180      185      190

cat gaa att gaa ttg ata att ctg atc ttt gca gct att gat ttg att      624
His Glu Ile Glu Leu Ile Ile Leu Ile Phe Ala Ala Ile Asp Leu Ile
      195      200      205

tca tct ctt ctg ata gtt ctt tta tct tac ctg ctc atc ctt gta gcc      672
Ser Ser Leu Leu Ile Val Leu Leu Ser Tyr Leu Leu Ile Leu Val Ala
      210      215      220

att ctc agg atg aat tct gct ggc aga caa aag gct ttt tct acc tgt      720
Ile Leu Arg Met Asn Ser Ala Gly Arg Gln Lys Ala Phe Ser Thr Cys
      225      230      235      240

gga gcc cac ctg aca gtg gtc ata gtg ttc tat ggg act ttg ctt ttc      768
Gly Ala His Leu Thr Val Val Ile Val Phe Tyr Gly Thr Leu Leu Phe
      245      250      255

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atg tac gtg cag ccc aag tcc agt cat tcc ttt gac act gat aac gtg      816
Met Tyr Val Gln Pro Lys Ser Ser His Ser Phe Asp Thr Asp Lys Val
      260              265              270

gct tcc ata ttt tac acc ctg gtt atc ccc atg ttg aat ccc ttg atc      864
Ala Ser Ile Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu Ile
      275              280              285

tat agt tta cga aac aaa gat gta aca tat gcc cta cga agg aca tgg      912
Tyr Ser Leu Arg Asn Lys Asp Val Lys Tyr Ala Leu Arg Arg Thr Trp
      290              295              300

aat aac tta tgt aat att ttt gtt taa      939
Asn Asn Leu Cys Asn Ile Phe Val
      305              310

<210> 60
<211> 312
<212> PRT
<213> Homo Sapiens

<400> 60
Met Glu Gln His Asn Leu Thr Thr Val Asn Glu Phe Ile Leu Thr Gly
1              5              10              15

Ile Thr Asp Ile Ala Glu Leu Gln Ala Pro Leu Phe Ala Ile Phe Leu
20              25              30

Met Ile Tyr Val Ile Ser Val Met Gly Asn Leu Gly Met Ile Val Leu
35              40              45

Thr Lys Leu Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg
50              55              60

His Leu Ala Phe Met Asp Leu Gly Tyr Ser Thr Thr Val Gly Pro Lys
65              70              75              80

Met Leu Val Asn Phe Val Val Asp Lys Asn Ile Ile Ser Tyr Tyr Phe
85              90              95

Cys Ala Thr Gln Leu Ala Phe Phe Leu Val Phe Ile Gly Ser Glu Leu
100             105             110

Phe Ile Leu Ser Ala Met Ser Tyr Asp Leu Tyr Val Ala Ile Cys Asn
115             120             125

Pro Leu Leu Tyr Thr Val Ile Met Ser Arg Arg Val Cys Gln Val Leu
130             135             140

Val Ala Ile Pro Tyr Leu Tyr Cys Thr Phe Ile Ser Leu Leu Val Thr

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145 150 155 160
 Ile Lys Ile Phe Thr Leu Ser Phe Cys Gly Tyr Asn Val Ile Ser His
 165 170 175
 Phe Tyr Cys Asp Ser Leu Pro Leu Leu Pro Leu Leu Cys Ser Asn Thr
 180 185 190
 His Glu Ile Glu Leu Ile Ile Leu Ile Phe Ala Ala Ile Asp Leu Ile
 195 200 205
 Ser Ser Leu Leu Ile Val Leu Leu Ser Tyr Leu Leu Ile Leu Val Ala
 210 215 220
 Ile Leu Arg Met Asn Ser Ala Gly Arg Gln Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Gly Ala His Leu Thr Val Val Ile Val Phe Tyr Gly Thr Leu Leu Phe
 245 250 255
 Met Tyr Val Gln Pro Lys Ser Ser His Ser Phe Asp Thr Asp Lys Val
 260 265 270
 Ala Ser Ile Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Tyr Ala Leu Arg Arg Thr Trp
 290 295 300
 Asn Asn Leu Cys Asn Ile Phe Val
 305 310

<210> 61
 <211> 936
 <212> DNA
 <213> Homo Sapiens

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 <222> (1)..(933)
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 Met Gly Arg Arg Asn Asn Thr Asn Val Pro Asp Phe Ile Leu Thr Gly
 1 5 10 15
 ctg tca gat tct gaa gag gtc cag atg gcc etc ttt ata cta ttt etc 96
 Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Ile Leu Phe Leu

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	20	25	30	
ctg ata tac cta att act atg ctg ggc aat gtg ggg atg ala ttg ata				144
Leu Ile Tyr Leu Ile Thr Met Leu Gly Asp Val Gly Met Ile Leu Ile				
35		40	45	
atc cgc ctg gac ctc cag ctt cac act ccc atg tat ttt ttc ctt act				192
Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu Thr				
50	55	60		
cac ttg tca ttt att gac ctc agt tac tca act gtc atc aca cct aaa				240
His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Ile Thr Pro Lys				
65	70	75	80	
acc tta gcg aac tta ctg act tcc aac tat att tcc ttc atg ggc tgc				288
Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Met Gly Cys				
85	90	95		
ttt gcc cag atg ttc ttt ttt gtc ttc ttg gga gct gct gaa tgt ttt				336
Phe Ala Gln Met Phe Phe Phe Val Phe Leu Gly Ala Ala Gln Cys Phe				
100	105	110		
ctt ctc tca tca atg gcc tat gat cgc tac gta gct atc tgc agt cct				384
Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro				
115	120	125		
cta cgt tac cca gtt att atg tcc aaa agg ctg tgt tgc gct ctt gtc				432
Leu Arg Tyr Pro Val Ile Met Ser Lys Arg Leu Cys Cys Ala Leu Val				
130	135	140		
act ggg ccc tat gtg att agc ttt atc aac tcc ttt gtc aat gtg gtt				480
Thr Gly Pro Tyr Val Ile Ser Phe Ile Asn Ser Phe Val Asn Val Val				
145	150	155	160	
tgg atg agc aga ctg cat ttc tgc gac tca aat gta gtt cgt cac ttt				528
Trp Met Ser Arg Leu His Phe Cys Asp Ser Asn Val Val Arg His Phe				
165	170	175		
ttc tgc gac acg tct cca att tta gct ctg tcc tgc atg gac aca tac				576
Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Met Asp Thr Tyr				
180	185	190		
gac att gaa atc atg ata cac att tta gct ggt tcc acc ctg atg gtg				624
Asp Ile Glu Ile Met Ile His Ile Leu Ala Gly Ser Thr Leu Met Val				
195	200	205		
tcc ctt atc aca ata tct gca tcc tat gtg tcc att ctc tct acc atc				672
Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr Ile				
210	215	220		
ctg aaa att aat tcc act tca gga aag cag aaa gct ttg tct act tgt				720
Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Leu Ser Thr Cys				
225	230	235	240	
gcc tct cat ctc ttg gga gtc acc atc ttt tat gga act atg att ttt				768
Ala Ser His Leu Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile Phe				
245	250	255		
act tat tta aaa cca aga aag tct tat tct ttg gga agg gat aca gtg				816
Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln Val				
260	265	270		

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gct tct gtt ttt tat act att gtg att ccc atg ctg aat cca ctc att      864
Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile
      275              280              285

tat agt ctt aga aac aaa gaa gtt aaa aat gct ctc att aga gtc atg      912
Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Leu Ile Arg Val Met
      290              295              300

cag aga aga cag gac tcc agg taa      936
Gln Arg Arg Gln Asp Ser Arg
      305              310

<210> 63
<211> 311
<212> PRT
<213> Homo Sapiens

<400> 62
Met Gly Arg Arg Asn Asn Thr Asn Val Pro Asp Phe Ile Leu Thr Gly
1              5              10              15

Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Ile Leu Phe Leu
20              25              30

Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu Ile
35              40              45

Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu Thr
50              55              60

His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Ile Thr Pro Lys
65              70              75              80

Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Met Gly Cys
85              90              95

Phe Ala Gln Met Phe Phe Phe Val Phe Leu Gly Ala Ala Glu Cys Phe
100             105             110

Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro
115             120             125

Leu Arg Tyr Pro Val Ile Met Ser Lys Arg Leu Cys Cys Ala Leu Val
130             135             140

Thr Gly Pro Tyr Val Ile Ser Phe Ile Asn Ser Phe Val Asn Val Val
145             150             155             160

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Trp Met Ser Arg Leu His Phe Cys Asp Ser Asn Val Val Arg His Phe
 165 170 175

Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Met Asp Thr Tyr
 180 185 190

Asp Ile Glu Ile Met Ile His Ile Leu Ala Gly Ser Thr Leu Met Val
 195 200 205

Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr Ile
 210 215 220

Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Leu Ser Thr Cys
 235 240 245

Ala Ser His Leu Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile Phe
 245 250 255

Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln Val
 260 265 270

Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile
 275 280 285

Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Leu Ile Arg Val Met
 290 295 300

Gln Arg Arg Gln Asp Ser Arg
 305 310

<210> 63
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 <212> DNA
 <213> Homo Sapiens

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 Met Ala Pro Glu Asn Phe Thr Arg Val Thr Glu Phe Ile Leu Thr Gly
 1 5 10 15
 gtc tct ags tgt cca gag ctc cag att ccc ctc ttc ctg gtc ttt ctg 96
 Val Ser Ser Cys Pro Glu Leu Gln Ile Pro Leu Phe Leu Val Phe Leu
 20 25 30
 gtg ctc tat ggg ctg acc atg gca ggg aac ctg ggc atc atc acc ctc 144

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Val Leu Tyr Gly Leu Thr Met Ala Gly Asn Leu Gly Ile Ile Thr Leu
 35 40 45

acc agt gtt gac tct cga ctt oaa acc ccc atg tac ttt ttc ctg caa 192
 Thr Ser Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Gln
 50 55 60

cat ctg gct ctc att aat ctt ggt aac tct act gtc att gcc cct aaa 240
 His Leu Ala Leu Ile Asn Leu Gly Asn Ser Thr Val Ile Ala Pro Lys
 65 70 75 80

atg ctg att aac ttt tta gta aag aag aaa act acc tca ttc tat gaa 288
 Met Leu Ile Asn Phe Leu Val Lys Lys Thr Thr Ser Phe Tyr Glu
 85 90 95

tgt gcc acc caa ctg gga ggg ttc ttg ttc ttt att gta tgg gag gta 336
 Cys Ala Thr Gln Leu Gly Gly Phe Leu Phe Phe Ile Val Ser Gln Val
 100 105 110

atc atg ctg gct ttg atg gcc tgt gac cgc tat gtg gct att tgt aac 384
 Ile Met Leu Ala Leu Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125

cct ctg ctg tac atg gtg gtg gtg tct cgg cgg ctc tgc ctc ctg ctg 432
 Pro Leu Leu Tyr Met Val Val Val Ser Arg Arg Leu Cys Leu Leu Leu
 130 135 140

gtc tcc ctc aca tac ctc tat ggc ttt tct aca gct att gtg gtt tca 480
 Val Ser Leu Thr Tyr Leu Tyr Gly Phe Ser Thr Ala Ile Val Val Ser
 145 150 155 160

tct tat gta ttc tct gtg tct tat tgc tct tot aat ata atc aat cal 528
 Ser Tyr Val Phe Ser Val Ser Tyr Cys Ser Ser Asn Ile Ile Asn His
 165 170 175

ttt tac tgt gat aat gtt cct ctg tta gca tta tct tgc tct gat act 576
 Phe Tyr Cys Asp Asn Val Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr
 180 185 190

tac tta cca gaa aca gtt gtc ttt ata tct gca gca aca aat gtg gtt 624
 Tyr Leu Pro Gln Thr Val Val Phe Ile Ser Ala Ala Thr Asn Val Val
 195 200 205

ggt tcc ttg att ata gtt cta gta tct tat ttc aat att gtt ttg tct 672
 Gly Ser Leu Ile Ile Val Leu Val Ser Tyr Phe Asn Ile Val Leu Ser
 210 215 220

att tta aaa ata tgt tca tca gaa gga agg aaa aaa gcc ttt tct acc 720
 Ile Leu Lys Ile Cys Ser Ser Gln Gly Arg Lys Lys Ala Phe Ser Thr
 225 230 235 240

tgt gct tca cat atg atg gca gtc aca att ttt tat ggg aca ttg cta 768
 Cys Ala Ser His Met Met Ala Val Thr Ile Phe Tyr Gly Thr Leu Leu
 245 250 255

ttc atg tat gtg cag ccc cga agt aac cat tca ttg gat act gat gat 816
 Phe Met Tyr Val Gln Pro Arg Ser Asn His Ser Leu Asp Thr Asp Asp
 260 265 270

aag atg gct tct gtg ttt tac acg ttg gta att cct atg ctg aat ccc 864
 Lys Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro

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275                280                285
ttg atc tac agc ctg agg aat aag gat gtg aag act gct cta cag aga    912
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Thr Ala Leu Gln Arg
290                295                300

ttc atg aca aat ctg tgc tat tcc ttt aaa aca atg taa    951
Phe Met Thr Asu Leu Cys Tyr Ser Phe Lys Thr Met
305                310                315

<210> 64
<211> 316
<212> PRT
<213> Homo Sapiens

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Met Ala Pro Glu Asn Phe Thr Arg Val Thr Glu Phe Ile Leu Thr Gly
1                5                10                15

Val Ser Ser Cys Pro Glu Leu Gln Ile Pro Leu Phe Leu Val Phe Leu
20                25                30

Val Leu Tyr Gly Leu Thr Met Ala Gly Asn Leu Gly Ile Ile Thr Leu
35                40                45

Thr Ser Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Gln
50                55                60

His Leu Ala Leu Ile Asn Leu Gly Asn Ser Thr Val Ile Ala Pro Lys
65                70                75                80

Met Leu Ile Asn Phe Leu Val Lys Lys Lys Thr Thr Ser Phe Tyr Glu
85                90                95

Cys Ala Thr Gln Leu Gly Gly Phe Leu Phe Phe Ile Val Ser Glu Val
100               105               110

Ile Met Leu Ala Leu Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Asn
115               120               125

Pro Leu Leu Tyr Met Val Val Val Ser Arg Arg Leu Cys Leu Leu Leu
130               135               140

Val Ser Leu Thr Tyr Leu Tyr Gly Phe Ser Thr Ala Ile Val Val Ser
145               150               155               160

Ser Tyr Val Phe Ser Val Ser Tyr Cys Ser Ser Asn Ile Ile Asn His
165               170               175

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Phe Tyr Cys Asp Asn Val Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr
 180 185 190

Tyr Leu Pro Glu Thr Val Val Phe Ile Ser Ala Ala Thr Asn Val Val
 195 200 205

Gly Ser Leu Ile Ile Val Leu Val Ser Tyr Phe Asn Ile Val Leu Ser
 210 215 220

Ile Leu Lys Ile Cys Ser Ser Glu Gly Arg Lys Lys Ala Phe Ser Thr
 225 230 235 240

Cys Ala Ser His Met Met Ala Val Thr Ile Phe Tyr Gly Thr Leu Leu
 245 250 255

Phe Met Tyr Val Gln Pro Arg Ser Asn His Ser Leu Asp Thr Asp Asp
 260 265 270

Lys Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro
 275 280 285

Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Thr Ala Leu Gln Arg
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Phe Met Thr Asn Leu Cys Tyr Ser Phe Lys Thr Met
 305 310 315

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 Met Lys Leu Trp Met Glu Ser His Leu Ile Val Pro Glu Thr Arg Pro
 1 5 10 15
 agc cca agg atg atg agt aac cag acg ttg gta acc gag ttc atc ctg 96
 Ser Pro Arg Met Met Ser Asn Gln Thr Leu Val Thr Glu Phe Ile Leu
 20 25 30
 cag ggc ttt tgg gag cac cca gaa tac cgg gtg ttc tta ttc age tgt 144
 Gln Gly Phe Ser Glu His Pro Glu Tyr Arg Val Phe Leu Phe Ser Cys
 35 40 45

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ttc ctc ttc ctc tac tct ggg gcc ctc aca ggt aat gtc ctc atc acc 192
 Phe Leu Phe Leu Tyr Ser Gly Ala Leu Thr Gly Asn Val Leu Ile Thr
 50 55 60
 ttg gcc atc acg ttc aac cct ggg ctc cac gct cct atg tac ttt ttc 240
 Leu Ala Ile Thr Phe Asn Pro Gly Leu His Ala Pro Met Tyr Phe Phe
 65 70 75 80
 tta ctc aac ttg gct act atg gac att atc tgc acc tct tcc atc atg 288
 Leu Leu Asn Leu Ala Thr Met Asp Ile Ile Cys Thr Ser Ser Ile Met
 85 90 95
 ccc aag gcg ctg gcc agt ctg gtg tgg gaa gag agc tcc atc tcc tac 336
 Pro Lys Ala Leu Ala Ser Leu Val Ser Glu Glu Ser Ser Ile Ser Tyr
 100 105 110
 ggg gcc tgc atg gcc cag ctc tat ttc ctc acg tgg gct gca tcc tca 384
 Gly Gly Cys Met Ala Gln Leu Tyr Phe Leu Thr Trp Ala Ala Ser Ser
 115 120 125
 gag ctg ctg ctc ctc acg gtc atg gcc tat gac cgg tac gca gcc atc 432
 Glu Leu Leu Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile
 130 135 140
 tgc cac ccg ctg cat tac agc agc atg atg agc aag gtg ttc tgc agc 480
 Cys His Pro Leu His Tyr Ser Ser Met Met Ser Lys Val Phe Cys Ser
 145 150 155 160
 ggg ctg gcc aca gcc gtg tgg ctg ctc tgc gcc gtc aac acg gcc atc 528
 Gly Leu Ala Thr Ala Val Trp Leu Leu Cys Ala Val Asn Thr Ala Ile
 165 170 175
 cac acg ggg ctg atg ctg cgc ttg gat ttc tgt gcc ccc aat gtc att 576
 His Thr Gly Leu Met Leu Arg Leu Asp Phe Cys Gly Pro Asn Val Ile
 180 185 190
 atc cat ttc ttc tgc gag gtc cct ccc ctg ctg ctt ctc tcc tgc agc 624
 Ile His Phe Phe Cys Glu Val Pro Pro Leu Leu Leu Ser Cys Ser
 195 200 205
 tcc acc tac gtc aac ggt gtc atg att gtc ctg gcg gat got ttc tac 672
 Ser Thr Tyr Val Asn Gly Val Met Ile Val Leu Ala Asp Ala Phe Tyr
 210 215 220
 ggc ata gtg aac ttc ctg atg acc atc gcg tcc tat ggc ttc atc gtc 720
 Gly Ile Val Asn Phe Leu Met Thr Ile Ala Ser Tyr Gly Phe Ile Val
 225 230 235 240
 tcc agc atc ctg aag gtg aag act gcc tgg ggg agg cag aaa gcc ttc 768
 Ser Ser Ile Leu Lys Val Lys Thr Ala Trp Gly Arg Gln Lys Ala Phe
 245 250 255
 tcc acc tgc tct tcc cac ctc acc gtg gtg tgc atg tat tac acc gct 816
 Ser Thr Cys Ser Ser His Leu Thr Val Val Cys Met Tyr Tyr Thr Ala
 260 265 270
 gtc ttc tac gcc tac ata agc ccg gtc tct ggc tac agc gca ggg aag 864
 Val Phe Tyr Ala Tyr Ile Ser Pro Val Ser Gly Tyr Ser Ala Gly Lys
 275 280 285
 agc aag ttg gct gcc ctg ctg tac act gtg ctg agt cct acc ctc aac 912

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Ser Lys Leu Ala Gly Leu Leu Tyr Thr Val Leu Ser Pro Thr Leu Asn
290                295                300

ccg ctc atc tat act ttg aga aac aag gag gtc aaa gca gcc ctc agg      960
Pro Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Leu Arg
305                310                315                320

aag ctt ttc cct ttc ttc aga aat taa      987
Lys Leu Phe Pro Phe Phe Arg Asn
325

<210> 66
<211> 329
<212> PRT
<213> Homo Sapiens

<400> 66

Met Lys Leu Trp Met Glu Ser His Leu Ile Val Pro Glu Thr Arg Pro
1          5          10          15

Ser Pro Arg Met Met Ser Asn Gln Thr Leu Val Thr Glu Phe Ile Leu
20          25          30

Gln Gly Phe Ser Glu His Pro Glu Tyr Arg Val Phe Leu Phe Ser Cys
35          40          45

Phe Leu Phe Leu Tyr Ser Gly Ala Leu Thr Gly Asn Val Leu Ile Thr
50          55          60

Leu Ala Ile Thr Phe Asn Pro Gly Leu His Ala Pro Met Tyr Phe Phe
65          70          75          80

Leu Leu Asn Leu Ala Thr Met Asp Ile Ile Cys Thr Ser Ser Ile Met
85          90          95

Pro Lys Ala Leu Ala Ser Leu Val Ser Glu Glu Ser Ser Ile Ser Tyr
100         105         110

Gly Gly Cys Met Ala Gln Leu Tyr Phe Leu Thr Trp Ala Ala Ser Ser
115         120         125

Glu Leu Leu Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile
130         135         140

Cys His Pro Leu His Tyr Ser Ser Met Met Ser Lys Val Phe Cys Ser
145         150         155         160

Gly Leu Ala Thr Ala Val Trp Leu Leu Cys Ala Val Asn Thr Ala Ile
165         170         175

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His Thr Gly Leu Met Leu Arg Leu Asp Phe Cys Gly Pro Asn Val Ile
 180 185 190
 Ile His Phe Phe Cys Glu Val Pro Pro Leu Leu Leu Leu Ser Cys Ser
 195 200 205
 Ser Thr Tyr Val Asn Gly Val Met Ile Val Leu Ala Asp Ala Phe Tyr
 210 215 220
 Gly Ile Val Asn Phe Leu Met Thr Ile Ala Ser Tyr Gly Phe Ile Val
 225 230 235 240
 Ser Ser Ile Leu Lys Val Lys Thr Ala Trp Gly Arg Gln Lys Ala Phe
 245 250 255
 Ser Thr Cys Ser Ser His Leu Thr Val Val Cys Met Tyr Tyr Thr Ala
 260 265 270
 Val Phe Tyr Ala Tyr Ile Ser Pro Val Ser Gly Tyr Ser Ala Gly Lys
 275 280 285
 Ser Lys Leu Ala Gly Leu Leu Tyr Thr Val Leu Ser Pro Thr Leu Asn
 290 295 300
 Pro Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Leu Arg
 305 310 315 320
 Lys Leu Phe Pro Phe Phe Arg Asn
 325

<210> 67
 <211> 960
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(957)
 <223>

<400> 67
 atg aca cot gga gaa cta gcc ctt gcc agt gcc aac cac acc cca gtc 48
 Met Thr Pro Gly Glu Leu Ala Leu Ala Ser Gly Asn His Thr Pro Val
 1 5 10 15
 acc aag ttc atc ttg cag gga ttc tcc aat tat cca gac ctc cag gag 96
 Thr Lys Phe Ile Leu Gln Gly Phe Ser Asn Tyr Pro Asp Leu Gln Glu
 20 25 30

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ott ctc ttc gga gcc atc ctg ctc atc tat gcc ata aca gtg gtg ggc      144
Leu Leu Phe Gly Ala Ile Leu Ile Tyr Ala Ile Thr Val Val Gly
    35          40          45

aac ttg gga atg atg gca ctc atc ttc aca gac tcc cat ctc caa agc      192
Asn Leu Gly Met Met Ala Leu Ile Phe Thr Asp Ser His Leu Gln Ser
    50          55          60

cca atg tat ttc ttc ctc aat gtc ctc tcg ttt ctt gat att tgt tac      240
Pro Met Tyr Phe Phe Leu Asn Val Leu Ser Phe Leu Asp Ile Cys Tyr
    65          70          75          80

tct tct gtg gtc aca cct aag ctc ttg gtc aac ttc ctg gtc tct gac      288
Ser Ser Val Val Thr Pro Lys Leu Leu Val Asn Phe Leu Val Ser Asp
    85          90          95

aag tcc atc tct ttt gag gcc tgt gtg gtc cag ctc gcc ttc ttt gta      336
Lys Ser Ile Ser Phe Glu Gly Cys Val Val Gln Leu Ala Phe Phe Val
    100          105          110

gtg cat gtg aca gct gag agc ttc ctg ctg gcc tcc atg gcc tat gac      384
Val His Val Thr Ala Glu Ser Phe Leu Leu Ala Ser Met Ala Tyr Asp
    115          120          125

cgc ttc cta gcc atc tgt caa ccc ctc cat tat ggt tct atc atg acc      432
Arg Phe Leu Ala Ile Cys Gln Pro Leu His Tyr Gly Ser Ile Met Thr
    130          135          140

agg ggg acc tgt ctc cag ctg gta gct gtg tcc tat gca ttt ggt gga      480
Arg Gly Thr Cys Leu Gln Leu Val Ala Val Ser Tyr Ala Phe Gly Gly
    145          150          155          160

gcc aac tcc gct atc cag act gga aat gtc ttt gcc ctg cct ttc tgt      528
Ala Asn Ser Ala Ile Gln Thr Gly Asn Val Phe Ala Leu Pro Phe Cys
    165          170          175

ggg ccc aac cag cta aca cac tac tac tgt gac ata cca ccc ctt ctc      576
Gly Pro Asn Gln Leu Thr His Tyr Tyr Cys Asp Ile Pro Pro Leu Leu
    180          185          190

cac ctg gct tgt gcc aac aca gcc aca gca aga gtg gtc ctc tat gtc      624
His Leu Ala Cys Ala Asn Thr Ala Thr Ala Arg Val Val Leu Tyr Val
    195          200          205

ttt tct gct ctg gtc acc ctt ctg cct gct gca gtc att ctc acc tcc      672
Phe Ser Ala Leu Val Thr Leu Leu Pro Ala Ala Val Ile Leu Thr Ser
    210          215          220

tac tgc ttg gtc ttg gtg gcc att ggg agg atg cgc tca gta gca ggg      720
Tyr Cys Leu Val Leu Val Ala Ile Gly Arg Met Arg Ser Val Ala Gly
    225          230          235          240

agg gag aag gac ctc tcc act tgt gcc tcc cac ttt ctg gcc att gcc      768
Arg Glu Lys Asp Leu Ser Thr Cys Ala Ser His Phe Leu Ala Ile Ala
    245          250          255

att ttc tat ggc acc gtg gtt ttc acc tat gtt cag ccc cat gga tct      816
Ile Phe Tyr Gly Thr Val Val Phe Thr Tyr Val Gln Pro His Gly Ser
    260          265          270

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act aac aat acc aat ggc can gta gtg tcc gtc ttc tac acc atc ata      864
Thr Asn Asn Thr Asn Gly Gln Val Val Ser Val Phe Tyr Thr Ile Ile
      275                      280                      285

att ccc atg ctc aat ccc ttc atc tat agc ctc cgc aac aag gag gtg      912
Ile Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Gln Val
      290                      295                      300

aag ggc gct ctg cag agg aag ctt cag gtc aac atc ttt ccc ggc tga      960
Lys Gly Ala Leu Gln Arg Lys Leu Gln Val Asn Ile Phe Pro Gly
      305                      310                      315

<210> 68
<211> 319
<212> PRT
<213> Homo Sapiens

<400> 68
Met Thr Pro Gly Gln Leu Ala Leu Ala Ser Gly Asn His Thr Pro Val
1      5      10      15

Thr Lys Phe Ile Leu Gln Gly Phe Ser Asn Tyr Pro Asp Leu Gln Glu
      20      25      30

Leu Leu Phe Gly Ala Ile Leu Leu Ile Tyr Ala Ile Thr Val Val Gly
      35      40      45

Asn Leu Gly Met Met Ala Leu Ile Phe Thr Asp Ser His Leu Gln Ser
      50      55      60

Pro Met Tyr Phe Phe Leu Asn Val Leu Ser Phe Leu Asp Ile Cys Tyr
      65      70      75      80

Ser Ser Val Val Thr Pro Lys Leu Leu Val Asn Phe Leu Val Ser Asp
      85      90      95

Lys Ser Ile Ser Phe Gln Gly Cys Val Val Gln Leu Ala Phe Phe Val
      100     105     110

Val His Val Thr Ala Gln Ser Phe Leu Leu Ala Ser Met Ala Tyr Asp
      115     120     125

Arg Phe Leu Ala Ile Cys Gln Pro Leu His Tyr Gly Ser Ile Met Thr
      130     135     140

Arg Gly Thr Cys Leu Gln Leu Val Ala Val Ser Tyr Ala Phe Gly Gly
      145     150     155     160

Ala Asn Ser Ala Ile Gln Thr Gly Asn Val Phe Ala Leu Pro Phe Cys

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165          170          175
Gly Pro Asn Gln Leu Thr His Tyr Tyr Cys Asp Ile Pro Pro Leu Leu
180          185          190
His Leu Ala Cys Ala Asn Thr Ala Thr Ala Arg Val Val Leu Tyr Val
195          200          205
Phe Ser Ala Leu Val Thr Leu Leu Pro Ala Ala Val Ile Leu Thr Ser
210          215          220
Tyr Cys Leu Val Leu Val Ala Ile Gly Arg Met Arg Ser Val Ala Gly
225          230          235          240
Arg Glu Lys Asp Leu Ser Thr Cys Ala Ser His Phe Leu Ala Ile Ala
245          250          255
Ile Phe Tyr Gly Thr Val Val Phe Thr Tyr Val Gln Pro His Gly Ser
260          265          270
Thr Asn Asn Thr Asn Gly Gln Val Val Ser Val Phe Tyr Thr Ile Ile
275          280          285
Ile Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Glu Val
290          295          300
Lys Gly Ala Leu Gln Arg Lys Leu Gln Val Asn Ile Phe Pro Gly
305          310          315

<210> 69
<211> 939
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(936)
<223>

<400> 69
atg aga aat ggc aca gta atc aca gaa ttc atc ctg cta ggc ttt cct      48
Met Arg Asn Gly Thr Val Ile Thr Glu Phe Ile Leu Leu Gly Phe Pro
1      5      10      15

ggt atc caa ggc cta caa aca cct ctc ttt att gca atc ttt cta acc      96
Val Ile Gln Gly Leu Gln Thr Pro Leu Phe Ile Ala Ile Phe Leu Thr
20     25     30

tac ata tta acc ctt gca ggc aat ggg ctt att att gcc act gtg tgg      144
Tyr Ile Leu Thr Leu Ala Gly Asn Gly Leu Ile Ile Ala Thr Val Trp

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35	40	45	
gct gag ccc agg cta caa att	cca atg tac ttc ttc ctt tgt aac ttg		192
Ala Glu Pro Arg Leu Gln Ile	Pro Met Tyr Phe Phe Leu Cys Asn Leu		
50	55	60	
tct ttc tta gaa atc tgg tac	acc acc aca gtc atc ccc aaa ctg cta		240
Ser Phe Leu Glu Ile Trp Tyr Thr Thr	Val Ile Pro Lys Leu Leu		
65	70	75	80
gga acc ttt gta gtg gca aga	aca gta atc tgc atg tcc tgc tgc ctg		288
Gly Thr Phe Val Val Ala Arg Thr	Val Ile Cys Met Ser Cys Cys Leu		
85	90	95	
ctg cag gcc ttc ttc caa ttc	ttc gtg ggc acc acc gag ttc ttg atc		336
Leu Gln Ala Phe Phe His Phe Phe	Val Gly Thr Thr Glu Phe Leu Ile		
100	105	110	
ctc act atc atg tct ttt gac	cgc tac ctc acc atc tgc aat ccc ctt		384
Leu Thr Ile Met Ser Phe Asp Arg Tyr	Leu Thr Ile Cys Asn Pro Leu		
115	120	125	
cac cac ccc acc atc atg acc	agc aaa ctc tgc ctg cag ctg gcc ctg		432
His His Pro Thr Ile Met Thr Ser	Lys Leu Cys Leu Gln Leu Ala Leu		
130	135	140	
agg tcc tgg gtg gtg ggc ttc	acc att gtc ttt tgt cag acg atg ctg		480
Ser Ser Trp Val Val Gly Phe Thr	Ile Val Phe Cys Gln Thr Met Leu		
145	150	155	160
ctc atc cag ttg cca ttc tgt	ggc aat aat gtt atc agt cat ttc tac		528
Leu Ile Gln Leu Pro Phe Cys Gly	Asn Asn Val Ile Ser His Phe Tyr		
165	170	175	
tgt gat gtt ggg ccc agt ttg	aaa gcc gcc tgc ata gac acc agc att		576
Cys Asp Val Gly Pro Ser Leu Lys	Ala Ala Cys Ile Asp Thr Ser Ile		
180	185	190	
ttg gaa ctc ctg ggc gtc ata	gca acc atc ctt gtg atc cca ggg tca		624
Leu Glu Leu Leu Gly Val Ile Ala	Thr Ile Leu Val Ile Pro Gly Ser		
195	200	205	
ctt ctc ttt aat atg att tct	tat atc tac att ctg tcc gca atc cta		672
Leu Leu Phe Asn Met Ile Ser Tyr	Ile Tyr Ile Leu Ser Ala Ile Leu		
210	215	220	
cga att cct tca gcc act ggc	cac caa aag act ttc tct acc tgt gcc		720
Arg Ile Pro Ser Ala Thr Gly His	Gln Lys Thr Phe Ser Thr Cys Ala		
225	230	235	240
tgc cac ctg aca gtt gtc tcc	ctg ctc tac ggg gct gtt ctg ttc atg		768
Ser His Leu Thr Val Val Ser Leu	Leu Tyr Gly Ala Val Leu Phe Met		
245	250	255	
tac cta aga ccc aca gca cac	tcc tcc ttt aag att aat aag gtg gtg		816
Tyr Leu Arg Pro Thr Ala His Ser	Ser Phe Lys Ile Asn Lys Val Val		
260	265	270	
tct gtg cta aat act atc ctc	acc ccc ctt ctg aat ccc ttt att tat		864
Ser Val Leu Asn Thr Ile Leu Thr	Pro Leu Leu Asn Pro Phe Ile Tyr		
275	280	285	

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act att aga aac aag gag gtg aag gga gcc tta aga aag gca atg act    912
Thr Ile Arg Asn Lys Glu Val Lys Gly Ala Leu Arg Lys Ala Met Thr
290                295                300

tgc cca aag act ggt cat gca aag taa                                939
Cys Pro Lys Thr Gly His Ala Lys
305                310

<210> 70
<211> 312
<212> PRT
<213> Homo Sapiens

<400> 70
Met Arg Asn Gly Thr Val Ile Thr Glu Phe Ile Leu Leu Gly Phe Pro
1      5      10      15

Val Ile Gln Gly Leu Gln Thr Pro Leu Phe Ile Ala Ile Phe Leu Thr
20      25      30

Tyr Ile Leu Thr Leu Asn Gly Asn Gly Leu Ile Ile Ala Thr Val Trp
35      40      45

Ala Glu Pro Arg Leu Gln Ile Pro Met Tyr Phe Phe Leu Cys Asn Leu
50      55      60

Ser Phe Leu Glu Ile Trp Tyr Thr Thr Thr Val Ile Pro Lys Leu Leu
65      70      75      80

Gly Thr Phe Val Val Ala Arg Thr Val Ile Cys Met Ser Cys Cys Leu
85      90      95

Leu Gln Ala Phe Phe His Phe Phe Val Gly Thr Thr Glu Phe Leu Ile
100     105     110

Leu Thr Ile Met Ser Phe Asp Arg Tyr Leu Thr Ile Cys Asn Pro Leu
115     120     125

His His Pro Thr Ile Met Thr Ser Lys Leu Cys Leu Gln Leu Ala Leu
130     135     140

Ser Ser Trp Val Val Gly Phe Thr Ile Val Phe Cys Gln Thr Met Leu
145     150     155     160

Leu Ile Gln Leu Pro Phe Cys Gly Asn Asn Val Ile Ser His Phe Tyr
165     170     175

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Cys Asp Val Gly Pro Ser Leu Lys Ala Ala Cys Ile Asp Thr Ser Ile
180 185 190

Leu Glu Leu Leu Gly Val Ile Ala Thr Ile Leu Val Ile Pro Gly Ser
195 200 205

Leu Leu Phe Asn Met Ile Ser Tyr Ile Tyr Ile Leu Ser Ala Ile Leu
210 215 220

Arg Ile Pro Ser Ala Thr Gly His Gln Lys Thr Phe Ser Thr Cys Ala
225 230 235 240

Ser His Leu Thr Val Val Ser Leu Leu Tyr Gly Ala Val Leu Phe Met
245 250 255

Tyr Leu Arg Pro Thr Ala His Ser Ser Phe Lys Ile Asn Lys Val Val
260 265 270

Ser Val Leu Asn Thr Ile Leu Thr Pro Leu Leu Asn Pro Phe Ile Tyr
275 280 285

Thr Ile Arg Asn Lys Glu Val Lys Gly Ala Leu Arg Lys Ala Met Thr
290 295 300

Cys Pro Lys Thr Gly His Ala Lys
305 310

<210> 71
<211> 1038
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> [1]..(1035)
<223>

<400> 71
atg aat atc aca ctt tat tca ttt ctt tat gtc ctc aga tta aat gaa 48
Met Asn Ile Thr Leu Tyr Ser Phe Leu Tyr Val Leu Arg Leu Asn Glu
1 5 10 15

ggg aat agt act gga aga aat ata gat gaa aga aag aaa atg caa gga 96
Gly Asn Ser Thr Gly Arg Asn Ile Asp Glu Arg Lys Lys Met Gln Gly
20 25 30

gaa aac ttc acc att tgg agc att ttt ttc ttg gag gga ttt tcc cag 144
Glu Asn Phe Thr Ile Trp Ser Ile Phe Phe Leu Glu Gly Phe Ser Gln
35 40 45

tac cca ggg tta gaa gtc gtt ctc ttc gtc ttc agc ctt gta atg tat 192

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Tyr Pro Gly Leu Glu Val Val Leu Phe Val Phe Ser Leu Val Met Tyr
50          55          60

ctg aca aag ctc ttg ggc aac agc act ctt att ttg atc act atc cta    240
Leu Thr Thr Leu Leu Gly Asn Ser Thr Leu Ile Leu Ile Thr Ile Leu
65          70          75          80

gat tca cgc ctt aaa acc ccc atg tac tta ttc ctt gga aat ctc tct    288
Asp Ser Arg Leu Lys Thr Pro Met Tyr Phe Leu Gly Asn Leu Ser
85          90          95

tto atg gat att tgt tac aca tot gcc tct gtt cct act ttg ctg gtg    336
Phe Met Asp Ile Cys Tyr Thr Ser Ala Ser Val Pro Thr Leu Leu Val
100         105         110

aac ttg ctg tca tcc cag aaa acc att atc ttt tct ggg tgt gct gta    384
Asn Leu Leu Ser Ser Gln Lys Thr Ile Ile Phe Ser Gly Cys Ala Val
115         120         125

cag atg tat ctg tcc ctt gcc atg ggc tcc aca gag tgt gtg ctc ctg    432
Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Gln Cys Val Leu Leu
130         135         140

gcc gtg atg gca tat gac cgt tat gtg gcc att tgt aac cag ctg aga    480
Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg
145         150         155         160

tac tcc atc atc atg aac agg tgc gtc tgt gca cgg atg gcc acg gtc    528
Tyr Ser Ile Ile Met Asn Arg Cys Val Cys Ala Arg Met Ala Thr Val
165         170         175

tcc tgg gtg acg ggt tgc ctg acc gct ctg ctg gaa acc agt ttt gcc    576
Ser Trp Val Thr Gly Cys Leu Thr Ala Leu Leu Glu Thr Ser Phe Ala
180         185         190

ctg cag ata ccc ctc tgt ggg aat ctc atc gat cac ttc acg tgt gaa    624
Leu Gln Ile Pro Leu Cys Gly Asn Leu Ile Asp His Phe Thr Cys Glu
195         200         205

att ctg gcg gtg cta aag tta gct tgc aca agt tca ctg ctc atg aac    672
Ile Leu Ala Val Leu Lys Leu Ala Cys Thr Ser Ser Leu Leu Met Asn
210         215         220

acc atc atg ctg gtg gtc agc att ctc ctc ttg cca att cca atg ctc    720
Thr Ile Met Leu Val Val Ser Ile Leu Leu Leu Pro Ile Pro Met Leu
225         230         235         240

tta gtt tgc atc tct tac atc ttc atc ctt tcc act att ctg aga atc    768
Leu Val Cys Ile Ser Tyr Ile Phe Ile Leu Ser Thr Ile Leu Arg Ile
245         250         255

acc tca gca gag gga aga aac aag gct ttt tct acc tgt ggt gcc cat    816
Thr Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser Thr Cys Gly Ala His
260         265         270

ttg act gtg gtg att ttg tat tat ggg gct gcc ctc tct atg tac cta    864
Leu Thr Val Val Ile Leu Tyr Tyr Gly Ala Ala Leu Ser Met Tyr Leu
275         280         285

aag cct tct tca tca aat gca caa aaa ata gac aaa atc atc tgg ttg    912
Lys Pro Ser Ser Ser Asn Ala Gln Lys Ile Asp Lys Ile Ile Ser Leu

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      290              295              300
ctt tac gga gtc ctt acc cct atg ttg aac ccc ata att tac agt tta      960
Leu Tyr Gly Val Leu Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu
305              310              315              320

aga aac aag gaa gtc aaa gat gct atg aag aaa ttg ctg ggc aaa ata      1008
Arg Asn Lys Glu Val Lys Asp Ala Met Lys Lys Leu Leu Gly Lys Ile
325              330              335

aca ttg cat caa aca cac gaa cat ctc tga      1038
Thr Leu His Gln Thr His Glu His Leu
340              345

<210> 72
<211> 345
<212> PRT
<213> Homo Sapiens

<400> 72
Met Asn Ile Thr Leu Tyr Ser Phe Leu Tyr Val Leu Arg Leu Asn Glu
1      5      10      15

Gly Asn Ser Thr Gly Arg Asn Ile Asp Glu Arg Lys Lys Met Gln Gly
20      25      30

Glu Asn Phe Thr Ile Trp Ser Ile Phe Phe Leu Glu Gly Phe Ser Gln
35      40      45

Tyr Pro Gly Leu Glu Val Val Leu Phe Val Phe Ser Leu Val Met Tyr
50      55      60

Leu Thr Thr Leu Leu Gly Asn Ser Thr Leu Ile Leu Ile Thr Ile Leu
65      70      75      80

Asp Ser Arg Leu Lys Thr Pro Met Tyr Leu Phe Leu Gly Asn Leu Ser
85      90      95

Phe Met Asp Ile Cys Tyr Thr Ser Ala Ser Val Pro Thr Leu Leu Val
100     105     110

Asn Leu Leu Ser Ser Gln Lys Thr Ile Ile Phe Ser Gly Cys Ala Val
115     120     125

Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Glu Cys Val Leu Leu
130     135     140

Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg
145     150     155     160

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Tyr Ser Ile Ile Met Asn Arg Cys Val Cys Ala Arg Met Ala Thr Val
 165 170 175
 Ser Trp Val Thr Gly Cys Leu Thr Ala Leu Leu Glu Thr Ser Phe Ala
 180 185 190
 Leu Gln Ile Pro Leu Cys Gly Asn Leu Ile Asp His Phe Thr Cys Glu
 195 200 205
 Ile Leu Ala Val Leu Lys Leu Ala Cys Thr Ser Ser Leu Leu Met Asn
 210 215 220
 Thr Ile Met Leu Val Val Ser Ile Leu Leu Leu Pro Ile Pro Met Leu
 225 230 235 240
 Leu Val Cys Ile Ser Tyr Ile Phe Ile Leu Ser Thr Ile Leu Arg Ile
 245 250 255
 Thr Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser Thr Cys Gly Ala His
 260 265 270
 Leu Thr Val Val Ile Leu Tyr Tyr Gly Ala Ala Leu Ser Met Tyr Leu
 275 280 285
 Lys Pro Ser Ser Ser Asn Ala Gln Lys Ile Asp Lys Ile Ile Ser Leu
 290 295 300
 Leu Tyr Gly Val Leu Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu
 305 310 315 320
 Arg Asn Lys Glu Val Lys Asp Ala Met Lys Lys Leu Leu Gly Lys Ile
 325 330 335
 Thr Leu His Gln Thr His Glu His Leu
 340 345

<210> 73
 <211> 930
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(927)
 <223>

<400> 73

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. atg aag aga aag aac ttc aca gaa gtg tca gaa ttc att ttc ttg gga      48
Met Lys Arg Lys Asn Phe Thr Glu Val Ser Glu Phe Ile Phe Leu Gly
1      5      10      15

ttt tct agc ttt gga aag cat cag ata acc ctc ttt gtg gtt ttc cta      96
Phe Ser Ser Phe Gly Lys His Gln Ile Thr Leu Phe Val Val Phe Leu
20      25      30

act gtc tac att tta act ctg gtt gct aac atc atc att gtg act atc      144
Thr Val Tyr Ile Leu Thr Leu Val Ala Asn Ile Ile Ile Val Thr Ile
35      40      45

atc tgc att gac cat cat ctc cac act ccc atg tat ttc ttc cta agc      192
Ile Cys Ile Asp His His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50      55      60

atg ctg gct agt tca gag acg gtg tac aca ctg gtc att gtg cca cga      240
Met Leu Ala Ser Ser Glu Thr Val Tyr Thr Leu Val Ile Val Pro Arg
65      70      75      80

atg ctt ttg agc ctc att ttt cat aac caa cct atc tcc ttg gca ggc      288
Met Leu Leu Ser Leu Ile Phe His Asn Gln Pro Ile Ser Leu Ala Gly
85      90      95

tgt gct aca caa atg ttc ttt ttt gtt atc ttg gcc act aat aat tgc      336
Cys Ala Thr Gln Met Phe Phe Phe Val Ile Leu Ala Thr Asn Asn Cys
100      105      110

ttc ctg ctt act gca atg ggg tat gac cgc tat gtg gcc atc tgc aga      384
Phe Leu Leu Thr Ala Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys Arg
115      120      125

ccc ctg aga tac act gtc atc atg agc aag gga cta tgt gcc cag ctg      432
Pro Leu Arg Tyr Thr Val Ile Met Ser Lys Gly Leu Cys Ala Gln Leu
130      135      140

gtg tgt ggg tcc ttt ggc att ggt ctg act atg gca gtt ctc cat gtg      480
Val Cys Gly Ser Phe Gly Ile Gly Leu Thr Met Ala Val Leu His Val
145      150      155      160

aca gcc atg ttc aat ttg ccg ttc tgt ggc aca gtg gta gac cac ttc      528
Thr Ala Met Phe Asn Leu Pro Phe Cys Gly Thr Val Val Asp His Phe
165      170      175

ttt tgt gac att tac cca gtc atg aaa ctt tct tgc att gat acc act      576
Phe Cys Asp Ile Tyr Pro Val Met Lys Leu Ser Cys Ile Asp Thr Thr
180      185      190

atc aat gag ata ata aat tat ggt gta agt tca ttt gtg att ttt gtg      624
Ile Asn Glu Ile Ile Asn Tyr Gly Val Ser Ser Phe Val Ile Phe Val
195      200      205

ccc ata ggc ctg ata ttt atc tcc tat gtc ctt gtc atc tct tcc atc      672
Pro Ile Gly Leu Ile Phe Ile Ser Tyr Val Leu Val Ile Ser Ser Ile
210      215      220

ctt caa att gcc tca gct gag ggc cgg aag aag acc ttt gcc acc tgt      720
Leu Gln Ile Ala Ser Ala Glu Gly Arg Lys Lys Thr Phe Ala Thr Cys
225      230      235      240

gtc tcc cac ctc act gtg gtt att gtc cac tgt ggc tgt gcc tcc att      768

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Val Ser His Leu Thr Val Val Ile Val His Cys Gly Cys Ala Ser Ile
 245 250 255
 gcc tac ctc aag ccg aag toa gaa agt toa ata gaa aaa gac ctt gtt 616
 Ala Tyr Leu Lys Pro Lys Ser Glu Ser Ser Ile Glu Lys Asp Leu Val
 260 265 270
 ctc tca gtg acg tac acc atc atc act ccc ttg ctg aac cct gtt gtt 864
 Leu Ser Val Thr Tyr Thr Ile Ile Thr Pro Leu Leu Asn Pro Val Val
 275 280 285
 tac agt ctg aga aac aag gag gta aag gat gcc cta tgc aga gtt gtg 912
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Leu Cys Arg Val Val
 290 295 300
 gcc aga aat att tct taa 930
 Gly Arg Asn Ile Ser
 305
 <210> 74
 <211> 309
 <212> FRT
 <213> Homo Sapiens
 <400> 74
 Met Lys Arg Lys Asn Phe Thr Glu Val Ser Glu Phe Ile Phe Leu Gly
 1 5 10 15
 Phe Ser Ser Phe Gly Lys His Gln Ile Thr Leu Phe Val Val Phe Leu
 20 25 30
 Thr Val Tyr Ile Leu Thr Leu Val Ala Asn Ile Ile Ile Val Thr Ile
 35 40 45
 Ile Cys Ile Asp His His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Met Leu Ala Ser Ser Glu Thr Val Tyr Thr Leu Val Ile Val Pro Arg
 65 70 75 80
 Met Leu Leu Ser Leu Ile Phe His Asn Gln Pro Ile Ser Leu Ala Gly
 85 90 95
 Cys Ala Thr Gln Met Phe Phe Phe Val Ile Leu Ala Thr Asn Asn Cys
 100 105 110
 Phe Leu Leu Thr Ala Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys Arg
 115 120 125
 Pro Leu Arg Tyr Thr Val Ile Met Ser Lys Gly Leu Cys Ala Gln Leu
 130 135 140

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Val Cys Gly Ser Phe Gly Ile Gly Leu Thr Met Ala Val Leu His Val
145 150 155 160

Thr Ala Met Phe Asn Leu Pro Phe Cys Gly Thr Val Val Asp His Phe
165 170 175

Phe Cys Asp Ile Tyr Pro Val Met Lys Leu Ser Cys Ile Asp Thr Thr
180 185 190

Ile Asn Glu Ile Ile Asn Tyr Gly Val Ser Ser Phe Val Ile Phe Val
195 200 205

Pro Ile Gly Leu Ile Phe Ile Ser Tyr Val Leu Val Ile Ser Ser Ile
210 215 220

Leu Glu Ile Ala Ser Ala Glu Gly Arg Lys Lys Thr Phe Ala Thr Cys
225 230 235 240

Val Ser His Leu Thr Val Val Ile Val His Cys Gly Cys Ala Ser Ile
245 250 255

Ala Tyr Leu Lys Pro Lys Ser Glu Ser Ser Ile Glu Lys Asp Leu Val
260 265 270

Leu Ser Val Thr Tyr Thr Ile Ile Thr Pro Leu Leu Asn Pro Val Val
275 280 285

Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Leu Cys Arg Val Val
290 295 300

Gly Arg Asn Ile Ser
305

<210> 75
<211> 945
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)...(542)
<223>

<400> 75 48
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Met Gly Asp Val Asn Gln Ser Val Ala Ser Asp Phe Ile Leu Val Gly
1 5 10 15

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ctc ttc agt cac tca gga toa cgc cag ctc ctc ttc tcc ctg gtc gct      96
Leu Phe Ser His Ser Gly Ser Arg Gln Leu Leu Phe Ser Leu Val Ala
      20      25      30

gtc atg ttt gtc ata ggc ctt ctg ggc aac acc gtt ctt ctc ttc ttg      144
Val Met Phe Val Ile Gly Leu Leu Gly Asn Thr Val Leu Leu Phe Leu
      35      40      45

atc cgt gtc gac tcc cgg ctc cac aca ccc atg tac ttc ctg ctc ago      192
Ile Arg Val Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser
      50      55      60

cag ctc tcc ctg ttt gac att ggc tgt ccc atg gtc acc atc ccc aag      240
Gln Leu Ser Leu Phe Asp Ile Gly Cys Pro Met Val Thr Ile Pro Lys
      65      70      75      80

atg gca tca gac ttt ctg cgg gga gaa ggt gcc acc tcc tat gga ggt      288
Met Ala Ser Asp Phe Leu Arg Gly Glu Ala Thr Ser Tyr Gly Gly
      85      90      95

ggc gca gct caa ata ttc ttc ctc aca ctg atg ggt gtc gct gag ggc      336
Gly Ala Ala Gln Ile Phe Phe Leu Thr Leu Met Gly Val Ala Glu Gly
      100      105      110

gtc ctg ttg gtc ctc atg tct tat gac cgt tat gtt gct gtc tgc cag      384
Val Leu Leu Val Leu Met Ser Tyr Asp Arg Tyr Val Ala Val Cys Gln
      115      120      125

ccc ctg cag tat cct gta ctt atg aga cgc cag gta tgt ctg ctg atg      432
Pro Leu Gln Tyr Pro Val Leu Met Arg Arg Gln Val Cys Leu Leu Met
      130      135      140

atg ggc tcc tcc tgg gtc gta ggt gtc ctc aac gcc tcc atc cag acc      480
Met Gly Ser Ser Trp Val Val Gly Val Leu Asn Ala Ser Ile Gln Thr
      145      150      155      160

tcc atc aac ctg cat ttt ccc tac tgt gcc tcc cgt att gtc gat cac      528
Ser Ile Thr Leu His Phe Pro Tyr Cys Ala Ser Arg Ile Val Asp His
      165      170      175

ttc ttc tgt gag gtc cca gcc cta ctg aag ctc tcc tgt gca gat acc      576
Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Ala Asp Thr
      180      185      190

tgt gcc tac gag atg ggc ctg tcc acc tca ggg gtc ctg atc cta atg      624
Cys Ala Tyr Glu Met Ala Leu Ser Thr Ser Gly Val Leu Ile Leu Met
      195      200      205

ctc cct ctt tcc ctc atc gcc acc tcc tac ggc cac gtc ttg cag gct      672
Leu Pro Ser Ser Leu Ile Ala Thr Ser Tyr Gly His Val Leu Gln Ala
      210      215      220

gtt cta agc atg cgc tca gag gag gcc aga cac aag gct gtc acc acc      720
Val Leu Ser Met Arg Ser Glu Glu Ala Arg His Lys Ala Val Thr Thr
      225      230      235      240

tgc tcc tgc cac atc acg gta gtc ggg ctc ttt tat ggt gcc gcc gtc      768
Cys Ser Ser His Ile Thr Val Val Gly Leu Phe Tyr Gly Ala Ala Val
      245      250      255

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ttc atg tac atg gtg cct tgc gcc tac cac agt cca cag cag gat aac      816
Phe Met Tyr Met Val Pro Cys Ala Tyr His Ser Pro Gln Gln Asp Asn
      260              265              270

gtg gtt tcc ctg ttc tat agc att gtc acc cct aca ctg aac ccc att      864
Val Val Ser Leu Phe Tyr Ser Leu Val Thr Pro Thr Leu Asn Pro Leu
      275              280              285

atc tac agt ctg agg aat ccg gag gtg tgg atg gct ttg gtc aaa gtg      912
Ile Tyr Ser Leu Arg Asn Pro Glu Val Trp Met Ala Leu Val Lys Val
      290              295              300

att agc aga gct gga ctg agg caa atg tgc tga      945
Leu Ser Arg Ala Gly Leu Arg Gln Met Cys
      305              310

<210> 76
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 76
Met Gly Asp Val Asn Gln Ser Val Ala Ser Asp Phe Ile Leu Val Gly
1              5              10              15

Leu Phe Ser His Ser Gly Ser Arg Gln Leu Leu Phe Ser Leu Val Ala
20              25              30

Val Met Phe Val Ile Gly Leu Leu Gly Asn Thr Val Leu Leu Phe Leu
35              40              45

Ile Arg Val Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser
50              55              60

Gln Leu Ser Leu Phe Asp Ile Gly Cys Pro Met Val Thr Ile Pro Lys
65              70              75              80

Met Ala Ser Asp Phe Leu Arg Gly Glu Gly Ala Thr Ser Tyr Gly Gly
85              90              95

Gly Ala Ala Gln Ile Phe Phe Leu Thr Leu Met Gly Val Ala Glu Gly
100             105             110

Val Leu Leu Val Leu Met Ser Tyr Asp Arg Tyr Val Ala Val Cys Gln
115             120             125

Pro Leu Gln Tyr Pro Val Leu Met Arg Arg Gln Val Cys Leu Leu Met
130             135             140

Met Gly Ser Ser Trp Val Val Gly Val Leu Asn Ala Ser Ile Gln Thr

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<210> 77
<211> 954
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(951)
<223>
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<400> 77
atg cta agg aat ggc agc ata gtg acg gaa ttt atc ctc gtg ggc ttt 48
Met Leu Arg Asn Gly Ser Ile Val Thr Glu Phe Ile Leu Val Gly Phe
1 5 10 15
cag cag agc ttc act tcc acc cga gca ttg ctc ttc gcc ctc ttc ttg
cag gln ser ser thr ser thr arg ala leu leu phe ala leu phe leu 96

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	20	25	30	
gac ctc tac agc ctc acc atg gcc atg aat ggc ctc atc atc ttt atc				144
Ala Leu Tyr Ser Leu Thr Met Ala Met Asn Gly Leu Ile Ile Phe Ile	35	40	45	
acc tcc tgg aca gac ccc aag ctc aac agc ccc atg tac ttc ttc ctc				192
Thr Ser Trp Thr Asp Pro Lys Leu Asn Ser Pro Met Tyr Phe Phe Leu	50	55	60	
ggc cat ctg tct ctc ctg gat gtc tgc ttc atc acc act acc atc cca				240
Gly His Leu Ser Leu Leu Asp Val Cys Phe Ile Thr Thr Thr Ile Pro	65	70	75	80
cag atg ttg atc cac ctc gtg gtc agg gac cac att gtc tcc ttt gta				288
Gln Met Leu Ile His Leu Val Val Arg Asp His Ile Val Ser Phe Val	85	90	95	
tgt tgc atg acc cag atg tac ttc gtc ttc tgt gtt ggt gtg gcc gag				336
Cys Cys Met Thr Gln Met Tyr Phe Val Phe Cys Val Gly Val Ala Glu	100	105	110	
tgc atc ctc ttg gct ttc atg gcc tat gac cgt tat gtt got atc tgc				384
Cys Ile Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys	115	120	125	
tac cca ctt aac tat gtc cag atc ata agc cag aag gtc tgt gtc agg				432
Tyr Pro Leu Asn Tyr Val Pro Ile Ile Ser Gln Lys Val Cys Val Arg	130	135	140	
ctt gtg gga act gcc tgg ttc ttt ggg ctg atc aat gcc atc ttt ctc				480
Leu Val Gly Thr Ala Trp Phe Phe Gly Leu Ile Asn Gly Ile Phe Leu	145	150	155	160
gag tat att tca ttc cga gag ccc ttc cgc aga gac aac cac ata gaa				528
Glu Tyr Ile Ser Phe Arg Glu Pro Phe Arg Arg Asp Asn His Ile Glu	165	170	175	
agc ttc ttc tgt gag gcc ccc ata gtg att gcc ctc tct tgt ggg gac				576
Ser Phe Phe Cys Glu Ala Pro Ile Val Ile Gly Leu Ser Cys Gly Asp	180	185	190	
cct cag ttt agt ctg tgg gca atc ttt gcc gat gcc atc gtg gta att				624
Pro Gln Phe Ser Leu Trp Ala Ile Phe Ala Asp Ala Ile Val Val Ile	195	200	205	
ctc agc ccc atg gtg ctc act gtc act tcc tat gtg cac atc ctg gcc				672
Leu Ser Pro Met Val Leu Thr Val Thr Ser Tyr Val His Ile Leu Ala	210	215	220	
acc atc ctc agc aaa gcc tcc tcc tca ggt cgg ggg aag act ttc tct				720
Thr Ile Leu Ser Lys Ala Ser Ser Ser Gly Arg Gly Lys Thr Phe Ser	225	230	235	240
act tgt gcc tct cac ctg act gtg gtc atc ttt ctc tac act tca gct				768
Thr Cys Ala Ser His Leu Thr Val Val Ile Phe Leu Tyr Thr Ser Ala	245	250	255	
atg ttc tct tac atg aac ccc cac agc aca cat ggg cct gac aaa gac				816
Met Phe Ser Tyr Met Asn Pro His Ser Thr His Gly Pro Asp Lys Asp	260	265	270	

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aaa cct ttc tcc ctg tac acc atc att acc ccc atg tgc aac ccc      864
Lys Pro Phe Ser Leu Leu Tyr Thr Ile Ile Thr Pro Met Cys Asn Pro
      275              280              285

atc att tat agt ttc cgc aac aag gaa att aag gag gcc atg gtg agg      912
Ile Ile Tyr Ser Phe Arg Asn Lys Glu Ile Lys Glu Ala Met Val Arg
      290              295              300

gca ctt gga aga acc agg ctg gcc cag cca cag tct gtc tag          964
Ala Leu Gly Arg Thr Arg Leu Ala Gln Pro Gln Ser Val
      305              310              315

<210> 78
<211> 317
<212> PRT
<213> Homo Sapiens

<400> 78
Met Leu Arg Asn Gly Ser Ile Val Thr Glu Phe Ile Leu Val Gly Phe
1      5              10              15

Gln Gln Ser Ser Thr Ser Thr Arg Ala Leu Leu Phe Ala Leu Phe Leu
30              35              40

Ala Leu Tyr Ser Leu Thr Met Ala Met Asn Gly Leu Ile Ile Phe Ile
35              40              45

Thr Ser Trp Thr Asp Pro Lys Leu Asn Ser Pro Met Tyr Phe Phe Leu
50              55              60

Gly His Leu Ser Leu Leu Asp Val Cys Phe Ile Thr Thr Thr Ile Pro
65              70              75              80

Gln Met Leu Ile His Leu Val Val Arg Asp His Ile Val Ser Phe Val
85              90              95

Cys Cys Met Thr Gln Met Tyr Phe Val Phe Cys Val Gly Val Ala Glu
100             105             110

Cys Ile Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
115             120             125

Tyr Pro Leu Asn Tyr Val Pro Ile Ile Ser Gln Lys Val Cys Val Arg
130             135             140

Leu Val Gly Thr Ala Trp Phe Phe Gly Leu Ile Asn Gly Ile Phe Leu
145             150             155             160

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Glu Tyr Ile Ser Phe Arg Glu Pro Phe Arg Arg Asp Asn His Ile Glu
165 170 175

Ser Phe Phe Cys Glu Ala Pro Ile Val Ile Gly Leu Ser Cys Gly Asp
180 185 190

Pro Gln Phe Ser Leu Trp Ala Ile Phe Ala Asp Ala Ile Val Val Ile
195 200 205

Leu Ser Pro Met Val Leu Thr Val Thr Ser Tyr Val His Ile Leu Ala
210 215 220

Thr Ile Leu Ser Lys Ala Ser Ser Ser Gly Arg Gly Lys Thr Phe Ser
225 230 235 240

Thr Cys Ala Ser His Leu Thr Val Val Ile Phe Leu Tyr Thr Ser Ala
245 250 255

Met Phe Ser Tyr Met Asn Pro His Ser Thr His Gly Pro Asp Lys Asp
260 265 270

Lys Pro Phe Ser Leu Leu Tyr Thr Ile Ile Thr Pro Met Cys Asn Pro
275 280 285

Ile Ile Tyr Ser Phe Arg Asn Lys Glu Ile Lys Glu Ala Met Val Arg
290 295 300

Ala Leu Gly Arg Thr Arg Leu Ala Gln Pro Gln Ser Val
305 310 315

<210> 79
<211> 933
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)...(930)
<223>

<400> 79
atg caa ctg aat aat aat gtg act gag ttc att ctg ctt gga ttg aca 48
Met Gln Leu Asn Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
1 5 10 15
cag gat cct ttt tgg aag aaa ata gtg ttt gtt att ttt ttg cgt ctc 96
Gln Asp Pro Phe Trp Lys Lys Ile Val Phe Val Ile Phe Leu Arg Leu
20 25 30
tac ttg gga aca ctg ttg ggt aat ttg cta atc att att agt gtc aag 144

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Tyr Leu Gly Thr Leu Leu Gly Asn Leu Leu Ile Ile Ile Ser Val Lys
 35 40 45
 gcc agc cag gca ctt aag aac cca atg ttc ttc ttc ctt ttc tac tta 192
 Ala Ser Gln Ala Leu Lys Asn Pro Met Phe Phe Phe Leu Phe Tyr Leu
 50 55 60
 tct tta tct gat act tgc ctc tct act tcc ata gcc cct aga atg att 240
 Ser Leu Ser Asp Thr Cys Leu Ser Thr Ser Ile Ala Pro Arg Met Ile
 65 70 75 80
 gtg gat gcc ctt ttg aag aag aca act atc tcc ttc agc gag tgc atg 288
 Val Asp Ala Leu Leu Lys Lys Thr Thr Ile Ser Phe Ser Glu Cys Met
 85 90 95
 atc caa gtc ttt tca tcc cat gtc ttt ggc tgc ctg gag atc ttc atc 336
 Ile Gln Val Phe Ser Ser His Val Phe Gly Cys Leu Glu Ile Phe Ile
 100 105 110
 ctc atc ctc acg gct gtt gac cgc tat gtg gac atc tgt aag ccc ctg 384
 Leu Ile Leu Thr Ala Val Asp Arg Tyr Val Asp Ile Cys Lys Pro Leu
 115 120 125
 cac tac atg acc atc ata agc cag tgg gtc tgt ggt gtt ttg atg gct 432
 His Tyr Met Thr Ile Ile Ser Gln Trp Val Cys Gly Val Leu Met Ala
 130 135 140
 gtg gcc tgg gtg gga tcc tgt gtg cat tct tta gtt cag att ttt ctt 480
 Val Ala Trp Val Gly Ser Cys Val His Ser Leu Val Glu Ile Phe Leu
 145 150 155 160
 gcc ctg agt ttg cca ttc tgt ggc ccc aat gtg atc aat cac tgt ttc 528
 Ala Leu Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Cys Phe
 165 170 175
 tgt gac ttg cag ccc ttg ttg aaa caa gcc tgt tca gaa acc tat gtg 576
 Cys Asp Leu Gln Pro Leu Leu Lys Gln Ala Cys Ser Glu Thr Tyr Val
 180 185 190
 gtt aac cta ctc ctg gtt tcc aat agt ggg gcc att tgt gca gtg agt 624
 Val Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ala Val Ser
 195 200 205
 tat gtc atg cta ata ttc tcc tat gtc atc ttc ttg cat tct ctg aga 672
 Tyr Val Met Leu Ile Phe Ser Tyr Val Ile Phe Leu His Ser Leu Arg
 210 215 220
 aac cao agt gct gaa gtg ata aag aaa gca ctt tcc aca tgt gtc tcc 720
 Asn His Ser Ala Glu Val Ile Lys Lys Ala Leu Ser Thr Cys Val Ser
 225 230 235 240
 cac atc att gtg gtc atc ttg ttc ttt gga cct tgc ata ttt atg tac 768
 His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Met Tyr
 245 250 255
 aca tgc cct gca acc gta ttc ccc atg gat aag atg ata gct gta ttt 816
 Thr Cys Pro Ala Thr Val Phe Pro Met Asp Lys Met Ile Ala Val Phe
 260 265 270
 tat aca gtt gga aca tct ttt ctc aac cct gtg att tac acg ctg aag 864
 Tyr Thr Val Gly Thr Ser Phe Leu Asn Pro Val Ile Tyr Thr Leu Lys

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      275              280              285
aat aca gaa gtg aaa agt gcc atg agg aag ctt tgg agc aag aaa ttg      912
asn thr glu val lys ser ala met arg lys leu trp ser lys lys leu
290              295              300

atc aca gat gac aaa aga taa      933
ile thr asp asp lys arg
305              310

<210> 80
<211> 310
<212> PRT
<213> Homo Sapiens

<400> 80
Met Gln Leu Asn Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
1              5              10              15

Gln Asp Pro Phe Trp Lys Lys Ile Val Phe Val Ile Phe Leu Arg Leu
20              25              30

Tyr Leu Gly Thr Leu Leu Gly Asn Leu Leu Ile Ile Ile Ser Val Lys
35              40              45

Ala Ser Gln Ala Leu Lys Asn Pro Met Phe Phe Phe Leu Phe Tyr Leu
50              55              60

Ser Leu Ser Asp Thr Cys Leu Ser Thr Ser Ile Ala Pro Arg Met Ile
65              70              75              80

Val Asp Ala Leu Leu Lys Lys Thr Thr Ile Ser Phe Ser Glu Cys Met
85              90              95

Ile Gln Val Phe Ser Ser His Val Phe Gly Cys Leu Glu Ile Phe Ile
100             105             110

Leu ile Leu Thr Ala Val Asp Arg Tyr Val Asp ile Cys Lys Pro Leu
115             120             125

His Tyr Met Thr ile ile Ser Gln Trp Val Cys Gly Val Leu Met Ala
130             135             140

Val Ala Trp Val Gly Ser Cys Val His Ser Leu Val Gln ile Phe Leu
145             150             155             160

Ala Leu Ser Leu Pro Phe Cys Gly Pro Asn Val ile Asn His Cys Phe
165             170             175

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Cys Asp Leu Glu Pro Leu Leu Lys Gln Ala Cys Ser Glu Thr Tyr Val
180 185 190

Val Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ala Val Ser
195 200 205

Tyr Val Met Leu Ile Phe Ser Tyr Val Ile Phe Leu His Ser Leu Arg
210 215 220

Asn His Ser Ala Glu Val Ile Lys Lys Ala Leu Ser Thr Cys Val Ser
225 230 235 240

His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Met Tyr
245 250 255

Thr Cys Pro Ala Thr Val Phe Pro Met Asp Lys Met Ile Ala Val Phe
260 265 270

Tyr Thr Val Gly Thr Ser Phe Leu Asn Pro Val Ile Tyr Thr Leu Lys
275 280 285

Asn Thr Glu Val Lys Ser Ala Met Arg Lys Leu Trp Ser Lys Lys Leu
290 295 300

Ile Thr Asp Asp Lys Arg
305 310

<210> B1
<211> 960
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(957)
<223>

<400> B1
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1 5 10 15

ttt att ctc ttg ggg ttt toc caa aat aag aac att gaa gtc ctc tgc 96
Phe Ile Leu Leu Gly Phe Ser Gln Asn Lys Asn Ile Glu Val Leu Cys
20 25 30

ttt gta tta ttt ttg ttt tgc tac att gct att tgg atg gga aac tta 144
Phe Val Leu Phe Leu Phe Cys Tyr Ile Ala Ile Trp Met Gly Asn Leu
35 40 45

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PCT/BE01/00162

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ctc ata atg att tct atc acg tgc acc cag ctc att cac caa ccc atg      192
Leu Ile Met Ile Ser Ile Thr Cys Thr Gln Leu Ile His Gln Pro Met
50                      55                      60

tat ttc ttc ctc aat tac ctc tca ctc tcc gac ctt tgc tac aca tcc      240
Tyr Phe Phe Leu Asn Asn Tyr Leu Ser Leu Ser Asp Leu Cys Tyr Thr Ser
65                      70                      75                      80

aca gtg acc ccc aaa tta atg gtt gac tta ctg gca gaa aga aag acc      288
Thr Val Thr Pro Lys Leu Met Val Asp Leu Leu Ala Glu Arg Lys Thr
85                      90                      95

att tcc tat aat aac tgt atg ata caa ctc ttt acc acc cat ttt ttt      336
Ile Ser Tyr Asn Asn Cys Met Ile Gln Leu Phe Thr Thr His Phe Phe
100                     105                     110

gga ggc ata gag atc ttc att ctc aca ggg atg gcc tat gac cgc tat      384
Gly Gly Ile Glu Ile Phe Ile Leu Thr Gly Met Ala Tyr Asp Arg Tyr
115                     120                     125

gtg gcc att tgc aag ccc ctg cac tac acc att att atg agc agg caa      432
Val Ala Ile Cys Lys Pro Leu His Tyr Thr Ile Ile Met Ser Arg Gln
130                     135                     140

aag tgt aac aca atc atc ata gtt tgt tgt act ggg gga ttt ata cat      480
Lys Cys Asn Thr Ile Ile Ile Val Cys Cys Thr Gly Gly Phe Ile His
145                     150                     155                     160

tct gcc agt cag ttt ctt ctc acc atc ttt gta cca ttt tgt ggc cca      528
Ser Ala Ser Gln Phe Leu Leu Thr Ile Phe Val Pro Phe Cys Gly Pro
165                     170                     175

ant gag ata gat cac tac ttc tgt gat gtg tat cct ttg ctg aaa ttg      576
Asn Glu Ile Asp His Tyr Phe Cys Asp Val Tyr Pro Leu Leu Lys Leu
180                     185                     190

gcc tgt tct aat ata cac atg ata ggt ctc tta gtc att gct aat tca      624
Ala Cys Ser Asn Ile His Met Ile Gly Leu Leu Val Ile Ala Asn Ser
195                     200                     205

ggc tta att gct ttg gtg aca ttt gtt gtc ttg ttg ttg tct tat gtt      672
Gly Leu Ile Ala Leu Val Thr Phe Val Val Leu Leu Ser Tyr Val
210                     215                     220

ttt ata ttg tat acc atc aga gca tac tct gca gag aga cgc agc aaa      720
Phe Ile Leu Tyr Thr Ile Arg Ala Tyr Ser Ala Glu Arg Arg Ser Lys
225                     230                     235                     240

gct ctt gcc act tgt agt tct cat gta att gtt gtg gtc ctg ttt ttt      768
Ala Leu Ala Thr Cys Ser Ser His Val Ile Val Val Val Leu Phe Phe
245                     250                     255

gct cct gca ttg ttc att tac att aga ccg gtc aca aca ttc tca gaa      816
Ala Pro Ala Leu Phe Ile Tyr Ile Arg Pro Val Thr Thr Phe Ser Glu
260                     265                     270

gat aaa gtg ttt gcc ctt ttt tat acc atc att gct ccc atg ttc aac      864
Asp Lys Val Phe Ala Leu Phe Tyr Thr Ile Ile Ala Pro Met Phe Asp
275                     280                     285

cct ctc ata tac acg ctg aga aac aca gag atg aag aac gcc atg agg      912

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Pro Leu Ile Tyr Thr Leu Arg Asn Thr Glu Met Lys Asn Ala Met Arg
290          295          300

aaa gtg tgg tgt tgt caa ata ctc ctg aaa aga aat caa ctt ttc tga    960
Lys Val Trp Cys Cys Gln Ile Leu Leu Lys Arg Asn Gln Leu Phe
305          310          315

<210> 82
<211> 319
<212> PRT
<213> Homo Sapiens

<400> 82

Met Phe Tyr Leu His Trp Thr Met Glu Lys Ser Asn Asn Ser Thr Leu
1          5          10          15

Phe Ile Leu Leu Gly Phe Ser Gln Asn Lys Asn Ile Glu Val Leu Cys
20          25          30

Phe Val Leu Phe Leu Phe Cys Tyr Ile Ala Ile Trp Met Gly Asn Leu
35          40          45

Leu Ile Met Ile Ser Ile Thr Cys Thr Gln Leu Ile His Gln Pro Met
50          55          60

Tyr Phe Phe Leu Asn Tyr Leu Ser Leu Ser Asp Leu Cys Tyr Thr Ser
65          70          75          80

Thr Val Thr Pro Lys Leu Met Val Asp Leu Leu Ala Glu Arg Lys Thr
85          90          95

Ile Ser Tyr Asn Asn Cys Met Ile Gln Leu Phe Thr Thr His Phe Phe
100         105         110

Gly Gly Ile Glu Ile Phe Ile Leu Thr Gly Met Ala Tyr Asp Arg Tyr
115         120         125

Val Ala Ile Cys Lys Pro Leu His Tyr Thr Ile Ile Met Ser Arg Gln
130         135         140

Lys Cys Asn Thr Ile Ile Ile Val Cys Cys Thr Gly Gly Phe Ile His
145         150         155         160

Ser Ala Ser Gln Phe Leu Leu Thr Ile Phe Val Pro Phe Cys Gly Pro
165         170         175

Asn Glu Ile Asp His Tyr Phe Cys Asp Val Tyr Pro Leu Leu Lys Leu
180         185         190

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Ala Cys Ser Asn Ile His Met Ile Gly Leu Leu Val Ile Ala Asn Ser
195 200 205

Gly Leu Ile Ala Leu Val Thr Phe Val Val Leu Leu Leu Ser Tyr Val
210 215 220

Phe Ile Leu Tyr Thr Ile Arg Ala Tyr Ser Ala Glu Arg Arg Ser Lys
225 230 235 240

Ala Leu Ala Thr Cys Ser Ser His Val Ile Val Val Val Leu Phe Phe
245 250 255

Ala Pro Ala Leu Phe Ile Tyr Ile Arg Pro Val Thr Thr Phe Ser Glu
260 265 270

Asp Lys Val Phe Ala Leu Phe Tyr Thr Ile Ile Ala Pro Met Phe Asn
275 280 285

Pro Leu Ile Tyr Thr Leu Arg Asn Thr Glu Met Lys Asn Ala Met Arg
290 295 300

Lys Val Trp Cys Cys Gln Ile Leu Leu Lys Arg Asn Gln Leu Phe
305 310 315

<210> 83
<211> 990
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)...(987)
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<400> 83
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1 5 10 15
caa agc ttt gta act gag ttt gtc ctc ctg gga ctt tca cag aat cca 96
Gln Ser Phe Val Thr Glu Phe Val Leu Leu Gly Leu Ser Gln Asn Pro
20 25 30
aat gtt cag gaa ata gta ttt gtt gta ttt ttg ttt gtc tac att gca 144
Asn Val Gln Glu Ile Val Phe Val Val Phe Leu Phe Val Tyr Ile Ala
35 40 45
act gtt ggg ggc aac atg cta att gta gta aoc att ctc agc agc cct 192
Thr Val Gly Gly Asn Met Leu Ile Val Val Thr Ile Leu Ser Ser Pro
50 55 60

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gct ctt ctg gtg tct cct atg tac ttc ttc ttg ggc ttc ctg tcc ttc      240
Ala Leu Leu Val Ser Pro Met Tyr Phe Phe Leu Gly Phe Leu Ser Phe
65              70              75              80

ctg gat ggc tgc ttc tca tct gtc atc acc cca aag atg att gta gac      288
Leu Asp Ala Cys Phe Ser Ser Val Ile Ser Phe Glu Gly Met Ile Val Asp
85              90              95

tcc ctc tat gtg aca aaa acc atc tct ttt gaa ggc tgc atg atg cag      336
Ser Leu Tyr Val Thr Lys Thr Ile Ser Phe Glu Gly Cys Met Met Gln
100             105             110

ctc ttt gct gaa cac ttc ttt gct ggg gtg gag gtg att gtc ctc aca      384
Leu Phe Ala Glu His Phe Phe Ala Gly Val Glu Val Ile Val Leu Thr
115             120             125

gcc atg gcc tat gat cgt tat gtg ggc att tgc aag ccc ttg cat tac      432
Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr
130             135             140

tct tct atc atg aac agg agg ctc tgt ggc att ctg atg ggg gta gcc      480
Ser Ser Ile Met Asn Arg Arg Leu Cys Gly Ile Leu Met Gly Val Ala
145             150             155             160

tgg aca ggg ggc ctc ttg cat tcc atg ata caa att ctt ttt act ttc      528
Trp Thr Gly Gly Leu Leu His Ser Met Ile Gln Ile Leu Phe Thr Phe
165             170             175

cag ctt ccc ttt tgt ggc ccc aat gtc atc aat cac ttt atg tgt gac      576
Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met Cys Asp
180             185             190

ttg tac cgg tta ctg gag ctt gcc tgc act gat act cac atc ttt ggc      624
Leu Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr His Ile Phe Gly
195             200             205

ctc atg gtg gtc atc aac agt ggg ttt atc tgc atc ata aac ttc tcc      672
Leu Met Val Val Ile Asn Ser Gly Phe Ile Cys Ile Ile Asn Phe Ser
210             215             220

ttg ttg ctt gtc tcc tat gct gtc atc ttg ctc tct ctg aga aca cac      720
Leu Leu Leu Val Ser Tyr Ala Val Ile Leu Leu Ser Leu Arg Thr His
225             230             235             240

agt tct gaa ggg cgc tgg aaa gct ctc tcc acc tgt gga tct cac att      768
Ser Ser Glu Gly Arg Trp Lys Ala Leu Ser Thr Cys Gly Ser His Ile
245             250             255

gct gtt gtg att ttg ttc ttt gtc cca tgc ata ttt gta tat aca cga      816
Ala Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Val Tyr Thr Arg
260             265             270

cct cca tct gct ttt tcc ctt gac aaa atg ggc gca ata ttt tat atc      864
Pro Pro Ser Ala Phe Ser Leu Asp Lys Met Ala Ala Ile Phe Tyr Ile
275             280             285

atc tta aat ccc ttg ctc aat cct ttg att tac act ttc agg aat aag      912
Ile Leu Asn Pro Leu Leu Asn Pro Leu Ile Tyr Thr Phe Arg Asn Lys
290             295             300

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gaa gta aaa cag gcc atg agg aga ata tgg aac aga ctg atg gtg gtt 960
 Glu Val Lys Gln Ala Met Arg Arg Ile Trp Asn Arg Leu Met Val Val
 305 310 315 320

tat gat gag aaa gaa aat att aaa ctt taa 990
 Ser Asp Glu Lys Glu Asn Ile Lys Leu
 325

<210> 84
 <211> 329
 <212> PRT
 <213> Homo Sapiens

<400> 84

Met Ile Pro Val Gly Ala Phe Ile Phe Ser Leu Gly Asn Met Gln Asn
 1 5 10 15

Gln Ser Phe Val Thr Glu Phe Val Leu Leu Gly Leu Ser Gln Asn Pro
 20 25 30

Asn Val Gln Glu Ile Val Phe Val Val Phe Leu Phe Val Tyr Ile Ala
 35 40 45

Thr Val Gly Gly Asn Met Leu Ile Val Val Thr Ile Leu Ser Ser Pro
 50 55 60

Ala Leu Leu Val Ser Pro Met Tyr Phe Phe Leu Gly Phe Leu Ser Phe
 65 70 75 80

Leu Asp Ala Cys Phe Ser Ser Val Ile Thr Pro Lys Met Ile Val Asp
 85 90 95

Ser Leu Tyr Val Thr Lys Thr Ile Ser Phe Glu Gly Cys Met Met Gln
 100 105 110

Leu Phe Ala Glu His Phe Phe Ala Gly Val Glu Val Ile Val Leu Thr
 115 120 125

Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr
 130 135 140

Ser Ser Ile Met Asn Arg Arg Leu Cys Gly Ile Leu Met Gly Val Ala
 145 150 155 160

Trp Thr Gly Gly Leu Leu His Ser Met Ile Gln Ile Leu Phe Thr Phe
 165 170 175

Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Phe Met Cys Asp

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180              185              190
Leu Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr His Ile Phe Gly
195              200              205

Leu Met Val Val Ile Asn Ser Gly Phe Ile Cys Ile Ile Asn Phe Ser
210              215              220

Leu Leu Leu Val Ser Tyr Ala Val Ile Leu Leu Ser Leu Arg Thr His
225              230              235              240

Ser Ser Glu Gly Arg Trp Lys Ala Leu Ser Thr Cys Gly Ser His Ile
245              250              255

Ala Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Val Tyr Thr Arg
260              265              270

Pro Pro Ser Ala Phe Ser Leu Asp Lys Met Ala Ala Ile Phe Tyr Ile
275              280              285

Ile Leu Asn Pro Leu Leu Asn Pro Leu Ile Tyr Thr Phe Arg Asn Lys
290              295              300

Glu Val Lys Gln Ala Met Arg Arg Ile Trp Asn Arg Leu Met Val Val
305              310              315              320

Ser Asp Glu Lys Glu Asn Ile Lys Leu
325

<210> 85
<211> 936
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(933)
<223>

<400> 85
atg aga aga aac tgc acg ttg gtg act gag ttc att ctc ctg gga ctg      48
Met Arg Arg Asn Cys Thr Leu Val Thr Glu Phe Ile Leu Leu Gly Leu
1              5              10              15

acc agt cgc cgg gaa tta caa att ctc ctc ttc acg ctg ttt ctg gcc      96
Thr Ser Arg Arg Glu Leu Gln Ile Leu Leu Phe Thr Leu Phe Leu Ala
20              25              30

att tac atg gtc acg gtg gca ggg aac ctt ggc atg att gtc ctc atc     144
Ile Tyr Met Val Thr Val Ala Gly Asn Leu Gly Met Ile Val Leu Ile

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35	40	45	
cag gcc aac gcc tgg ctc cac atg ccc atg tac ttt ttc ctg agc cac Gln Ala Asn Ala Trp Leu His Met Pro Met Tyr Phe Phe Leu Ser His 50 55 60			192
tta tcc ttc gtg gat ctg tgc ttc tct tcc aat gtg act cca aag atg Leu Ser Phe Val Asp Leu Cys Phe Ser Ser Asn Val Thr Pro Lys Met 65 70 75 80			240
ctg gag att ttc ctt tca gag aag aaa agc att tcc tat cct gcc tgt Leu Glu Ile Phe Leu Ser Glu Lys Lys Ser Ile Ser Tyr Pro Ala Cys 85 90 95			288
ctt gtg cag tgt tac ctt ttt atc gcc ttg gtc cat gtt gag atc tac Leu Val Gln Cys Tyr Leu Phe Ile Ala Leu Val His Val Glu Ile Tyr 100 105 110			336
atc ctg gct gtg atg gcc ttt gac cgg tac atg gcc atc tgc aac cct Ile Leu Ala Val Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Asn Pro 115 120 125			384
ctg ctt tat ggc agc aga atg tcc aag agt gtg tgc tcc ttc ctc atc Leu Leu Tyr Gly Ser Arg Met Ser Lys Ser Val Cys Ser Phe Leu Ile 130 135 140			432
acg gtg cct tat gtg tat gga gcg ctc act ggc ctg atg gag acc atg Thr Val Pro Tyr Val Tyr Gly Ala Leu Thr Gly Leu Met Glu Thr Met 145 150 155 160			480
tgg acc tac aac cta gcc ttc tgt ggc ccc aat gaa att aat cac ttc Trp Thr Tyr Asn Leu Ala Phe Cys Gly Pro Asn Glu Ile Asn His Phe 165 170 175			528
tac tgt gcg gac cca cca ctg att aag ctg gct tgt tct gac acc tac Tyr Cys Ala Asp Pro Pro Leu Ile Lys Leu Ala Cys Ser Asp Thr Tyr 180 185 190			576
aac aag gag ttg tca atg ttt att gtg gct ggc tgg aac ctt tct ttt Asn Lys Glu Leu Ser Met Phe Ile Val Ala Gly Trp Asp Leu Ser Phe 195 200 205			624
tct ctc ttc atc ata tgt att tcc tac ctt tac att ttc cct gct att Ser Leu Phe Ile Ile Cys Ile Ser Tyr Leu Tyr Ile Phe Pro Ala Ile 210 215 220			672
tta aag att cgc tct aca gag ggc agg caa aaa gct ttt tct acc tgt Leu Lys Ile Arg Ser Thr Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys 225 230 235 240			720
ggc tcc cat ctg aca gct gtc act ata ttc tat gca acc ctt ttc ttc Gly Ser His Leu Thr Ala Val Thr Ile Phe Tyr Ala Thr Leu Phe Phe 245 250 255			768
atg tat ctc aga ccc ccc tca aag gaa tct gtt gaa cag ggt aaa atg Met Tyr Leu Arg Pro Pro Ser Lys Glu Ser Val Glu Gln Gly Lys Met 260 265 270			816
gta gct gta ttt tat acc aca gta atc cct atg ctg aac ctt ata att Val Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Leu Ile Ile 275 280 285			864

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tat agc ctt aga aat aaa aat gta aaa gaa gca tta atc aaa gag ctg      912
Tyr Ser Leu Arg Asn Lys Asn Val Lys Glu Ala Leu Ile Lys Glu Leu
290                               295                               300

tca atg aag ata tac ttt tct taa      936
Ser Met Lys Ile Tyr Phe Ser
305                               310

<310> 86
<211> 311
<212> PRT
<213> Homo Sapiens

<400> 86
Met Arg Arg Asn Cys Thr Leu Val Thr Glu Phe Ile Leu Leu Gly Leu
1      5      10      15

Thr Ser Arg Arg Glu Leu Gln Ile Leu Leu Phe Thr Leu Phe Leu Ala
20      25      30

Ile Tyr Met Val Thr Val Ala Gly Asn Leu Gly Met Ile Val Leu Ile
35      40      45

Gln Ala Asn Ala Trp Leu His Met Pro Met Tyr Phe Phe Leu Ser His
50      55      60

Leu Ser Phe Val Asp Leu Cys Phe Ser Ser Asn Val Thr Pro Lys Met
65      70      75      80

Leu Glu Ile Phe Leu Ser Glu Lys Lys Ser Ile Ser Tyr Pro Ala Cys
85      90      95

Leu Val Gln Cys Tyr Leu Phe Ile Ala Leu Val His Val Glu Ile Tyr
100     105     110

Ile Leu Ala Val Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Asn Pro
115     120     125

Leu Leu Tyr Gly Ser Arg Met Ser Lys Ser Val Cys Ser Phe Leu Ile
130     135     140

Thr Val Pro Tyr Val Tyr Gly Ala Leu Thr Gly Leu Met Glu Thr Met
145     150     155     160

Trp Thr Tyr Asn Leu Ala Phe Cys Gly Pro Asn Glu Ile Asn His Phe
165     170     175

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Tyr Cys Ala Asp Pro Pro Leu Ile Lys Leu Ala Cys Ser Asp Thr Tyr
180 185 190

Asn Lys Glu Leu Ser Met Phe Ile Val Ala Gly Trp Asn Leu Ser Phe
195 200 205

Ser Leu Phe Ile Ile Cys Ile Ser Tyr Leu Tyr Ile Phe Pro Ala Ile
210 215 220

Leu Lys Ile Arg Ser Thr Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys
225 230 235 240

Gly Ser His Leu Thr Ala Val Thr Ile Phe Tyr Ala Thr Leu Phe Phe
245 250 255

Met Tyr Leu Arg Pro Pro Ser Lys Glu Ser Val Glu Gln Gly Lys Met
260 265 270

Val Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Leu Ile Ile
275 280 285

Tyr Ser Leu Arg Asn Lys Asn Val Lys Gln Ala Leu Ile Lys Glu Leu
290 295 300

Ser Met Lys Ile Tyr Phe Ser
305 310

<210> 87
<211> 924
<212> DNA
<213> Homo Sapiens

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<222> (1)..(921)
<223>

<400> 87
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1 5 10 15

agc cgt cga gaa tgg caa gtt ctc ttc ttc atc atc ttt ctt gtg gtc 96
Ser Arg Arg Glu Trp Gln Val Leu Phe Phe Ile Ile Phe Leu Val Val
20 25 30

tac atc atc acc atg gtg ggc aat atc ggc atg atg gtg tta atc aag 144
Tyr Ile Ile Thr Met Val Gly Asn Ile Gly Met Met Val Leu Ile Lys
35 40 45

gtc agt cct cag ctt aac aac ccc atg tac ttt ttc ctc agt caa ttg 192

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Val Ser Pro Gln Leu Asn Asn Pro Met Tyr Phe Phe Leu Ser His Leu	
50 55 60	
tca ttt gtt gat gtg tgg ttt tct tcc aat gtc acc cct aaa atg ttg	240
Ser Phe Val Asp Val Trp Phe Ser Ser Asn Val Thr Pro Lys Met Leu	
65 70 75 80	
gaa aac ctg ttt tca gat aaa aaa aca att act tat gct ggt tgt tta	288
Glu Asn Leu Phe Ser Asp Lys Lys Thr Ile Thr Tyr Ala Gly Cys Leu	
85 90 95	
gta cag tgt ttc ttc ttc att gct ctt gtc cat gtg gaa att ttt att	336
Val Gln Cys Phe Phe Phe Ile Ala Leu Val His Val Glu Ile Phe Ile	
100 105 110	
ctt gct gcg atg gcc ttt gat aga tac atg gca att ggg aat cct ctg	384
Leu Ala Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Gly Asn Pro Leu	
115 120 125	
ctt tat ggc agt aaa atg tca agg gtt gtc tgt att cga ctg att act	432
Leu Tyr Gly Ser Lys Met Ser Arg Val Val Cys Ile Arg Leu Ile Thr	
130 135 140	
ttc cct tac att tat ggt ttt ctg acg agt ctg gca gca aca tta tgg	480
Phe Pro Tyr Ile Tyr Gly Phe Leu Thr Ser Leu Ala Ala Thr Leu Trp	
145 150 155 160	
act tac ggc ttg tac ttc tgt gga aaa att gag atc aac cat ttc tac	528
Thr Tyr Gly Leu Tyr Phe Cys Gly Lys Ile Glu Ile Asn His Phe Tyr	
165 170 175	
tgt gca gat cca cct ctc atc aaa atg gcc tgt gcc ggg acc ttt gta	576
Cys Ala Asp Pro Pro Leu Ile Lys Met Ala Cys Ala Gly Thr Phe Val	
180 185 190	
aaa gaa tat aca atg atc ata ctt gcc ggc att aac ttc aca tat tcc	624
Lys Glu Tyr Thr Met Ile Ile Leu Ala Gly Ile Asn Phe Thr Tyr Ser	
195 200 205	
ctg act gta att atc atc tot tac tta ttc atc ctc att gcc att ctg	672
Leu Thr Val Ile Ile Ile Ser Tyr Leu Phe Ile Leu Ile Ala Ile Leu	
210 215 220	
cga atg cgc tca gca gaa gga agg cag aag gcc ttt tcc aca tgt ggg	720
Arg Met Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Gly	
225 230 235 240	
tcc cat ctg aca gct gtc att ata ttc tat ggt act ctg atc ttc atg	768
Ser His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Leu Ile Phe Met	
245 250 255	
tat ctc aga cgt ccc aca gag gag tct gtg gag cag ggg aag atg gtg	816
Tyr Leu Arg Arg Pro Thr Glu Glu Ser Val Glu Gln Gly Lys Met Val	
260 265 270	
gct gtg ttc tat acc aca gtg atc ccc atg ttg aat ccc atg atc tac	864
Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile Tyr	
275 280 285	
agt ctg agg aac aag gat gtg aaa aag gcc atg atg aaa gtg atc agc	912
Ser Leu Arg Asp Lys Asp Val Lys Lys Ala Met Met Lys Val Ile Ser	

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290 295 300 924

aga tca tgt taa
Arg Ser Cys
305

<210> 88
<211> 307
<212> PRT
<213> Homo Sapiens

<400> 88

Met Leu Asn Phe Thr Asp Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
1 5 10 15

Ser Arg Arg Glu Trp Gln Val Leu Phe Phe Ile Ile Phe Leu Val Val
20 25 30

Tyr Ile Ile Thr Met Val Gly Asn Ile Gly Met Met Val Leu Ile Lys
35 40 45

Val Ser Pro Glu Leu Asn Asn Pro Met Tyr Phe Phe Leu Ser His Leu
50 55 60

Ser Phe Val Asp Val Trp Phe Ser Ser Asn Val Thr Pro Lys Met Leu
65 70 75 80

Glu Asn Leu Phe Ser Asp Lys Lys Thr Ile Thr Tyr Ala Gly Cys Leu
85 90 95

Val Gln Cys Phe Phe Phe Ile Ala Leu Val His Val Glu Ile Phe Ile
100 105 110

Leu Ala Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Gly Asn Pro Leu
115 120 125

Leu Tyr Gly Ser Lys Met Ser Arg Val Val Cys Ile Arg Leu Ile Thr
130 135 140

Phe Pro Tyr Ile Tyr Gly Phe Leu Thr Ser Leu Ala Ala Thr Leu Trp
145 150 155 160

Thr Tyr Gly Leu Tyr Phe Cys Gly Lys Ile Glu Ile Asn His Phe Tyr
165 170 175

Cys Ala Asp Pro Pro Leu Ile Lys Met Ala Cys Ala Gly Thr Phe Val
180 185 190

WO 02/24726

PCT/BE01/00162

Lys Glu Tyr Thr Met Ile Ile Leu Ala Gly Ile Asn Phe Thr Tyr Ser
195 200 205

Leu Thr Val Ile Ile Ile Ser Tyr Leu Phe Ile Leu Ile Ala Ile Leu
210 215 220

Arg Met Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Gly
225 230 235 240

Ser His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Leu Ile Phe Met
245 250 255

Tyr Leu Arg Arg Pro Thr Glu Glu Ser Val Glu Gln Gly Lys Met Val
260 265 270

Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile Tyr
275 280 285

Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Met Met Lys Val Ile Ser
290 295 300

Arg Ser Cys
305

<210> 89
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<212> DNA
<213> Homo Sapiens

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<223>

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ctc aca gat tgc cgc gaa ctc cag tct ctg ctt ttt gtg ctg ttt ctg 96
Leu Thr Asp Cys Pro Glu Leu Gln Ser Leu Leu Phe Val Leu Phe Leu
20 25 30
gtt gtt tac ctc gtc acc ctg cta ggc aac ctg ggc atg ata atg tta 144
Val Val Tyr Leu Val Thr Leu Leu Gly Asn Leu Gly Met Ile Met Leu
35 40 45
atg aga ctg gac tct cgc ctt cac acg ccc atg tac ttc ttc ctc act 192
Met Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr
50 55 60

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PCT/BE01/00162

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aac tta gcc ttt gtg gat ttg tgc tat aca tca aat gca acc ccg cag      240
Asn Leu Ala Phe Val Asp Leu Cys Tyr Thr Ser Asn Ala Thr Pro Gln
65              70              75              80

atg tgg act aat atc gta tot gag aag acc att tcc ttt gct ggt tgc      288
Met Ser Thr Asn Ile Val Ser Glu Lys Thr Ile Ser Phe Ala Gly Cys
85              90              95

ttt aca cag tgc tac att ttc att gcc ctt cta ctc act gag ttt tac      336
Phe Thr Gln Cys Tyr Ile Phe Ile Ala Leu Leu Leu Thr Glu Phe Tyr
100             105             110

atg ctg gca gca atg gcc tat gac cgc tat gtg gcc ata tat gac cct      384
Met Arg Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr Asp Pro
115             120             125

ctg cgc tac agt gtg aaa acg tcc agg aga gtt tgc atc tgc ttg gcc      432
Leu Arg Tyr Ser Val Lys Thr Ser Arg Arg Val Cys Ile Cys Leu Ala
130             135             140

aca ttt ccc tat gtc tat ggc ttc tca gat gga ctc ttc cag gcc atc      480
Thr Phe Pro Tyr Val Tyr Gly Phe Ser Asp Gly Leu Phe Gln Ala Ile
145             150             155             160

ctg acc ttc cgc ctg acc ttc tgt aga tcc aat gtc atc aac caa ttc      528
Leu Thr Phe Arg Leu Thr Phe Cys Arg Ser Asn Val Ile Asn His Phe
165             170             175

tac tgt gct gac ccg ccg ctc att aag ctt tct tgt tct gat act tat      576
Tyr Cys Ala Asp Pro Pro Leu Ile Lys Leu Ser Cys Ser Asp Thr Tyr
180             185             190

gtc aaa gag cat gcc atg ttc ata tct gct gcc ttc aac ctc tcc agc      624
Val Lys Glu His Ala Met Phe Ile Ser Ala Gly Phe Asn Leu Ser Ser
195             200             205

tcc ctc acc atc gtc ttg gtg tcc tat gcc ttc att ctt gct gcc atc      672
Ser Leu Thr Ile Val Leu Val Ser Tyr Ala Phe Ile Leu Ala Ala Ile
210             215             220

ctc cgg atc aaa tca gca gag gga agg cac aag gca ttc tcc acc tgt      720
Leu Arg Ile Lys Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr Cys
225             230             235             240

ggt tcc cat atg atg gct gtc acc ctg ttt tat ggg act ctc ttt tgc      768
Gly Ser His Met Met Ala Val Thr Leu Phe Tyr Gly Thr Leu Phe Cys
245             250             255

atg tat ata aga cca cca aca gat aag act gtt gag gaa tot aaa ata      816
Met Tyr Ile Arg Pro Pro Thr Asp Lys Thr Val Glu Glu Ser Lys Ile
260             265             270

ata gct gtc ttt tac acc ttt gtg agt ccg gta ctt aat cca ttg atc      864
Ile Ala Val Phe Tyr Thr Phe Val Ser Pro Val Leu Asn Pro Leu Ile
275             280             285

tac agt ctg agg aat aaa gat gtg aag cag gcc ttg aag aat gtc ctg      912
Tyr Ser Leu Arg Asn Lys Asp Val Lys Gln Ala Leu Lys Asn Val Leu
290             295             300

aga tga                                                                918

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Arg
305

<210> 90
 <211> 305
 <212> PRT
 <213> Homo Sapiens
 <400> 90

Met Ser Asn Thr Asn Gly Ser Ala Ile Thr Glu Phe Ile Leu Leu Gly
 1 5 10 15

Leu Thr Asp Cys Pro Glu Leu Gln Ser Leu Leu Phe Val Leu Phe Leu
 20 25 30

Val Val Tyr Leu Val Thr Leu Leu Gly Asn Leu Gly Met Ile Met Leu
 35 40 45

Met Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr
 50 55 60

Asn Leu Ala Phe Val Asp Leu Cys Tyr Thr Ser Asn Ala Thr Pro Gln
 65 70 75 80

Met Ser Thr Asn Ile Val Ser Glu Lys Thr Ile Ser Phe Ala Gly Cys
 85 90 95

Phe Thr Gln Cys Tyr Ile Phe Ile Ala Leu Leu Leu Thr Glu Phe Tyr
 100 105 110

Met Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr Asp Pro
 115 120 125

Leu Arg Tyr Ser Val Lys Thr Ser Arg Arg Val Cys Ile Cys Leu Ala
 130 135 140

Thr Phe Pro Tyr Val Tyr Gly Phe Ser Asp Gly Leu Phe Gln Ala Ile
 145 150 155 160

Leu Thr Phe Arg Leu Thr Phe Cys Arg Ser Asn Val Ile Asn His Phe
 165 170 175

Tyr Cys Ala Asp Pro Pro Leu Ile Lys Leu Ser Cys Ser Asp Thr Tyr
 180 185 190

Val Lys Glu His Ala Met Phe Ile Ser Ala Gly Phe Asn Leu Ser Ser
 195 200 205

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Ser Leu Thr Ile Val Leu Val Ser Tyr Ala Phe Ile Leu Ala Ala Ile
 210 215 220

Leu Arg Ile Lys Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr Cys
 225 230 235 240

Gly Ser His Met Met Ala Val Thr Leu Phe Tyr Gly Thr Leu Phe Cys
 245 250 255

Met Tyr Ile Arg Pro Pro Thr Asp Lys Thr Val Glu Glu Ser Lys Ile
 260 265 270

Ile Ala Val Phe Tyr Thr Phe Val Ser Pro Val Leu Asn Pro Leu Ile
 275 280 285

Tyr Ser Leu Arg Asn Lys Asp Val Lys Gln Ala Leu Lys Asn Val Leu
 290 295 300

Arg
 305

<210> 91
 <211> 933
 <212> DNA
 <213> Homo Sapiens

<220>
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 <223>

<220>
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 <222> (378)..(378)
 <223> unknown

<220>
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 <222> (436)..(436)
 <223> unknown

<220>
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 <222> (443)..(444)
 <223> unknown

<400> 91
 atg cct aat ttc acg gat gtg aca gaa ttt act ctc ctg ggg ctg acc 48

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Met	Pro	Asn	Phe	Thr	Asp	Val	Thr	Glu	Phe	Thr	Leu	Leu	Gly	Leu	Thr		
1				5						10				15			
tgt	cgt	cag	gag	cta	cag	ggt	ctc	ttt	ttt	gtg	gtg	ttc	cta	gcg	gtt		96
Cys	Arg	Gln	Glu	Leu	Gln	Val	Leu	Phe	Phe	Val	Val	Phe	Leu	Ala	Val		
			20					25				30					
tac	atg	atc	act	ctg	tgg	gga	aat	att	ggg	atg	atc	att	tgg	att	agc		144
Tyr	Met	Ile	Thr	Leu	Leu	Gly	Asn	Ile	Gly	Met	Ile	Ile	Leu	Ile	Ser		
			35				40					45					
atc	agt	cct	cag	ctt	cag	agt	ccc	atg	tac	ttt	ttc	ctg	agt	cat	ctg		192
Ile	Ser	Pro	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu		
			50				55				60						
tct	ttt	gcg	gac	gtg	tgc	ttc	ttc	ttc	aac	gtt	acc	ccc	aaa	atg	ctg		240
Ser	Phe	Ala	Asp	Val	Cys	Phe	Ser	Ser	Asn	Val	Thr	Pro	Lys	Met	Leu		
			65		70				75					80			
gaa	aac	tta	tta	tca	gag	aca	aaa	acc	att	tcc	tat	gtg	gga	tgc	ttg		288
Glu	Asn	Leu	Leu	Ser	Glu	Thr	Lys	Thr	Ile	Ser	Tyr	Val	Gly	Cys	Leu		
				85				90					95				
gtg	cag	tgc	tac	ttt	ttc	att	gac	gtt	gtc	cac	gtg	gag	gtc	tat	atc		336
Val	Gln	Cys	Tyr	Phe	Phe	Ile	Ala	Val	Val	His	Val	Glu	Val	Tyr	Ile		
			100					105				110					
ctg	gct	gtg	atg	gac	ttt	gac	agg	tac	atg	gcc	ggc	tgc	aan	cct	ctg		384
Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Gly	Cys	Xaa	Pro	Leu		
			115				120				125						
ctt	tat	ggc	agt	aaa	atg	tct	agg	act	gtg	tgt	gtt	ogg	ctc	atc	tct		432
Leu	Tyr	Gly	Ser	Lys	Met	Ser	Arg	Thr	Val	Cys	Val	Arg	Leu	Ile	Ser		
			130				135				140						
gtg	nnn	tat	gnn	tat	gga	ttc	tct	gtc	agc	cta	ata	tgc	aca	cta	tgg		480
Val	Xaa	Tyr	Xaa	Tyr	Gly	Phe	Ser	Val	Ser	Leu	Ile	Cys	Thr	Leu	Trp		
			145		150				155				160				
act	tat	ggc	tta	tac	ttc	tgt	gga	aac	ttt	gaa	atc	aat	cac	ttc	tat		528
Thr	Tyr	Gly	Leu	Tyr	Phe	Cys	Gly	Asn	Phe	Glu	Ile	Asn	His	Phe	Tyr		
			165					170					175				
tgt	gca	gat	ccc	cct	ctc	atc	cag	att	gcc	tgt	ggg	aga	gtg	cac	atc		576
Cys	Ala	Asp	Pro	Pro	Leu	Ile	Gln	Ile	Ala	Cys	Gly	Arg	Val	His	Ile		
			180					185				190					
aaa	gaa	atc	aca	atg	att	gtt	att	gct	gga	att	aac	ttc	aca	tat	tcc		624
Lys	Glu	Ile	Thr	Met	Ile	Val	Ile	Ala	Gly	Ile	Asn	Phe	Thr	Tyr	Ser		
			195				200				205						
ctc	tgg	gtg	gtc	ctc	atc	tcc	tac	act	ctc	att	gta	gta	gct	gtg	cta		672
Leu	Ser	Val	Val	Leu	Ile	Ser	Tyr	Thr	Leu	Ile	Val	Val	Ala	Val	Leu		
			210				215				220						
ggc	atg	ggc	tct	gcc	gat	ggc	agg	agg	aag	ggg	ttc	tcc	acc	tgt	ggg		720
Arg	Met	Arg	Ser	Ala	Asp	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Gly		
			225		230			235					240				
tcc	cac	tgg	acg	gct	gtt	tct	atg	ttt	tat	ggg	acc	ccc	atc	ttc	atg		768
Ser	His	Leu	Thr	Ala	Val	Ser	Met	Phe	Tyr	Gly	Thr	Pro	Ile	Phe	Met		

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                245                250                255
tat ctc agg aga ccc act gag gaa tcc gta gag cag gcc aaa atg gtg      816
Tyr Leu Arg Arg Pro Thr Glu Glu Ser Val Glu Gln Gly Lys Met Val
                260                265                270

gct gtg ttt tac acc aca gta att cct atg ttg aat ccc atg atc tac      864
Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile Tyr
                275                280                285

agt ctg aga aat aag gat gta aaa gaa gaa gtc aac aaa gaa atc acc      912
Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Val Asn Lys Ala Ile Thr
                290                295                300

aag aca tat gtg agg cag taa      933
Lys Thr Tyr Val Arg Gln
305                310

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<210> 92
<211> 310
<212> PRT
<213> Homo Sapiens

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<220>
<221> misc_feature
<222> (126)..(126)
<223> The 'Xaa' at location 126 stands for Lys, or Asn.

<220>
<221> misc_feature
<222> (146)..(146)
<223> The 'Xaa' at location 146 stands for Lys, Asn, Arg, Ser, Thr, Ile,
Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
Tyr, Trp, Cys, or Phe.

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<220>
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<222> (148)..(148)
<223> The 'Xaa' at location 148 stands for Glu, Asp, Gly, Ala, or Val.

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<220>
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<222> (378)..(378)
<223> unknown

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<220>
<221> misc_feature
<222> (436)..(438)
<223> unknown

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<220>
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<222> (443)..(444)
<223> unknown

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<400> 92

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Met Pro Asn Phe Thr Asp Val Thr Glu Phe Thr Leu Leu Gly Leu Thr
1          5          10          15

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Cys Arg Gln Glu Leu Gln Val Leu Phe Phe Val Val Phe Leu Ala Val
 20 25 30
 Tyr Met Ile Thr Leu Leu Gly Asn Ile Gly Met Ile Ile Leu Ile Ser
 35 40 45
 Ile Ser Pro Gln Leu Gln Ser Pro Met Tyr Phe Phe Leu Ser His Leu
 50 55 60
 Ser Phe Ala Asp Val Cys Phe Ser Ser Asn Val Thr Pro Lys Met Leu
 65 70 75 80
 Glu Asn Leu Leu Ser Glu Thr Lys Thr Ile Ser Tyr Val Gly Cys Leu
 85 90 95
 Val Gln Cys Tyr Phe Phe Ile Ala Val Val His Val Glu Val Tyr Ile
 100 105 110
 Leu Ala Val Met Ala Phe Asp Arg Tyr Met Ala Gly Cys Xaa Pro Leu
 115 120 125
 Leu Tyr Gly Ser Lys Met Ser Arg Thr Val Cys Val Arg Leu Ile Ser
 130 135 140
 Val Xaa Tyr Xaa Tyr Gly Phe Ser Val Ser Leu Ile Cys Thr Leu Trp
 145 150 155 160
 Thr Tyr Gly Leu Tyr Phe Cys Gly Asn Phe Glu Ile Asn His Phe Tyr
 165 170 175
 Cys Ala Asp Pro Pro Leu Ile Gln Ile Ala Cys Gly Arg Val His Ile
 180 185 190
 Lys Glu Ile Thr Met Ile Val Ile Ala Gly Ile Asn Phe Thr Tyr Ser
 195 200 205
 Leu Ser Val Val Leu Ile Ser Tyr Thr Leu Ile Val Val Ala Val Leu
 210 215 220
 Arg Met Arg Ser Ala Asp Gly Arg Arg Lys Ala Phe Ser Thr Cys Gly
 225 230 235 240
 Ser His Leu Thr Ala Val Ser Met Phe Tyr Gly Thr Pro Ile Phe Met
 245 250 255

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Tyr Leu Arg Arg Pro Thr Glu Glu Ser Val Glu Gln Gly Lys Met Val
260 265 270

Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile Tyr
275 280 285

Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Val Asn Lys Ala Ile Thr
290 295 300

Lys Thr Tyr Val Arg Gln
305 310

<210> 93
<211> 933
<212> DNA
<213> Homo Sapiens

<220>
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<222> (1)..(930)
<223>

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atg gga aga aat aac cta aca aga ccc tct gaa ttc atc ctc ctt gga 48
Met Gly Arg Asn Asn Leu Thr Arg Pro Ser Glu Phe Ile Leu Leu Gly
1 5 10 15
ctc tcc tct cga cct gag gat cag aag ccg ctc ttt gct gtg ttc ctc 96
Leu Ser Ser Arg Pro Glu Asp Gln Lys Pro Leu Phe Ala Val Phe Leu
20 25 30
ccc atc tac ctt atc aca gtg ata gga aac ctg ctt atc atc ctg gcc 144
Pro Ile Tyr Leu Ile Thr Val Ile Gly Asn Leu Leu Ile Ile Leu Ala
35 40 45
atc cgc tca gac act cgt ctc cag acg ccc atg tac ttc ttt cta agc 192
Ile Arg Ser Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser
50 55 60
atc ctg tct ttt gtt gac att tgc tat gtg aca gtc att atc cct aag 240
Ile Leu Ser Phe Val Asp Ile Cys Tyr Val Thr Val Ile Ile Pro Lys
65 70 75 80
atg ctg gtg aac ttc tta tca gag aca aag acc atc tct tac agt gag 288
Met Leu Val Asn Phe Leu Ser Glu Thr Lys Thr Ile Ser Tyr Ser Glu
85 90 95
tgt ctg acc cag atg tac ttt ttc tta gcc ttt gga aac aca gac agt 336
Cys Leu Thr Gln Met Tyr Phe Phe Leu Ala Phe Gly Asn Thr Asp Ser
100 105 110
tac ctg cta gca gcc atg gcc att gac cgc tat gtg gcc ata tgt aat 384
Tyr Leu Leu Ala Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn
115 120 125
ccc ttc cac tac atc acc att atg agt cac aga tgc tgt gtc ctg ctt 432

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```

Pro Phe His Tyr Ile Thr Ile Met Ser His Arg Cys Cys Val Leu Leu
130                               135                               140

ctg gtt ctc tcc ttc tgc att cca cat ttt cac tcc ctc ctg cac att    480
Leu Val Leu Ser Phe Cys Ile Pro His Phe His Ser Leu Leu His Ile
145                               150                               155                               160

ctt ctg act aat cag ctc atc ttc tgt gcc tca aat gtc atc cat cac    528
Leu Leu Thr Asn Gln Leu Ile Phe Cys Ala Ser Asn Val Ile His His
165                               170                               175

ttt ttc tgc gat gat cca cca gtg cta aaa ttg tcc tgt tcc tcc cat    576
Phe Phe Cys Asp Asp Gln Pro Val Leu Lys Leu Ser Cys Ser Ser His
180                               185                               190

ttt gtc aaa gaa atc aca gta atg aca gaa ggc ttg gct gtc ata atg    624
Phe Val Lys Glu Ile Thr Val Met Thr Glu Gly Leu Ala Val Ile Met
195                               200                               205

acc cct ttt tca tgc atc atc atc tct tat tta aga atc ctc atc act    672
Thr Pro Phe Ser Cys Ile Ile Ile Ser Tyr Leu Arg Ile Leu Ile Thr
210                               215                               220

gtt ctg aag att cct tca gct gct gga aag cgt aaa gca ttt tct acc    720
Val Leu Lys Ile Pro Ser Ala Ala Gly Lys Arg Lys Ala Phe Ser Thr
225                               230                               235                               240

tgt gcc tct cat ctc aca gtg gtg acc ctg ttt tat gga agc att agc    768
Cys Gly Ser His Leu Thr Val Val Thr Leu Phe Tyr Gly Ser Ile Ser
245                               250                               255

tat ctc tat ttt cag ccc ctg tcc aac tat act gtc aag gat caa ata    816
Tyr Leu Tyr Phe Gln Pro Leu Ser Asn Tyr Thr Val Lys Asp Gln Ile
260                               265                               270

gca aca att atc tac acc gta ctg act cct atg cta aat cca ttt atc    864
Ala Thr Ile Ile Tyr Thr Val Leu Thr Pro Met Leu Asn Pro Phe Ile
275                               280                               285

tat agt ctg agg aac aaa gac atg aag cag ggt ttg gca aag ttg atg    912
Tyr Ser Leu Arg Asn Lys Asp Met Lys Gln Gly Leu Ala Lys Leu Met
290                               295                               300

cac agg atg aaa tgt cag taa    933
His Arg Met Lys Cys Gln
305                               310

<210> 94
<211> 310
<212> PRT
<213> Homo Sapiens

<400> 94

Met Gly Arg Asn Asn Leu Thr Arg Pro Ser Glu Phe Ile Leu Leu Gly
1                               5                               10                               15

Leu Ser Ser Arg Pro Glu Asp Gln Lys Pro Leu Phe Ala Val Phe Leu
20                               25                               30

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Pro Ile Tyr Leu Ile Thr Val Ile Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Ile Arg Ser Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Ile Leu Ser Phe Val Asp Ile Cys Tyr Val Thr Val Ile Ile Pro Lys
 65 70 75 80
 Met Leu Val Asn Phe Leu Ser Glu Thr Lys Thr Ile Ser Tyr Ser Glu
 85 90 95
 Cys Leu Thr Gln Met Tyr Phe Phe Leu Ala Phe Gly Asn Thr Asp Ser
 100 105 110
 Tyr Leu Leu Ala Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Phe His Tyr Ile Thr Ile Met Ser His Arg Cys Cys Val Leu Leu
 130 135 140
 Leu Val Leu Ser Phe Cys Ile Pro His Phe His Ser Leu Leu His Ile
 145 150 155 160
 Leu Leu Thr Asn Gln Leu Ile Phe Cys Ala Ser Asn Val Ile His His
 165 170 175
 Phe Phe Cys Asp Asp Gln Pro Val Leu Lys Leu Ser Cys Ser Ser His
 180 185 190
 Phe Val Lys Glu Ile Thr Val Met Thr Glu Gly Leu Ala Val Ile Met
 195 200 205
 Thr Pro Phe Ser Cys Ile Ile Ile Ser Tyr Leu Arg Ile Leu Ile Thr
 210 215 220
 Val Leu Lys Ile Pro Ser Ala Ala Gly Lys Arg Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Thr Val Val Thr Leu Phe Tyr Gly Ser Ile Ser
 245 250 255
 Tyr Leu Tyr Phe Gln Pro Leu Ser Asn Tyr Thr Val Lys Asp Gln Ile
 260 265 270

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Ala Thr Ile Ile Tyr Thr Val Leu Thr Pro Met Leu Asn Pro Phe Ile
 275 280 285

Tyr Ser Leu Arg Asn Lys Asp Met Lys Gln Gly Leu Ala Lys Leu Met
 290 295 300

His Arg Met Lys Cys Gln
 305 310

<210> 95
 <211> 951
 <212> DNA
 <213> Homo Sapiens

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 Met Gly Lys Pro Gly Arg Val Asn Gln Thr Thr Val Ser Asp Phe Leu
 1 5 10 15
 ctt cta gga ctc tct gag tgg oaa gag gag cag cct ctt ctg ttt ggc 96
 Leu Leu Gly Leu Ser Glu Trp Pro Glu Glu Gln Pro Leu Leu Phe Gly
 20 25 30
 atc ttc ctt ggc atg tac ctg gtc acc atg gtg ggg aac ctg ctc att 144
 Ile Phe Leu Gly Met Tyr Leu Val Thr Met Val Gly Asn Leu Leu Ile
 35 40 45
 atc ctg gcc atc agc tct gac oaa cac ctc cat act ccc atg tac ttc 192
 Ile Leu Ala Ile Ser Ser Asp Pro His Leu His Thr Pro Met Tyr Phe
 50 55 60
 ttt ctg gcc aac ctg tca tta act gat gcc tgt ttc act tct gcc tcc 240
 Phe Leu Ala Asn Leu Ser Leu Thr Asp Ala Cys Phe Thr Ser Ala Ser
 65 70 75 80
 atc ccc aaa atg ctg gcc aac att cat acc cag agt cag atc atc tcc 288
 Ile Pro Lys Met Leu Ala Asn Ile His Thr Gln Ser Gln Ile Ile Ser
 85 90 95
 tat tct ggg tgt ctt gca cag cta tat ttc ctc ctt atg ttt ggt ggc 336
 Tyr Ser Gly Cys Leu Ala Gln Leu Tyr Phe Leu Leu Met Phe Gly Gly
 100 105 110
 ctt gac aac tgc ctg ctg gct gtg atg gca tat gac cgc tat gtg gcc 384
 Leu Asp Asn Cys Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala
 115 120 125
 atc tgc caa oaa ctc cat tac agc aca tct atg agt ccc cag ctc tgt 432
 Ile Cys Gln Pro Leu His Tyr Ser Thr Ser Met Ser Pro Gln Leu Cys
 130 135 140

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gca cta atg ctg ggt gtg tgc tgg gtg cta aac aac tgt cct gcc ctg      480
Ala Leu Met Leu Gly Val Cys Trp Val Leu Thr Asn Cys Pro Ala Leu
145              150              155              160

atg cac aca ctg ttg ctg acc cgc gtg gct ttc tgt gcc cag aaa gcc      528
Met His Thr Leu Leu Leu Thr Arg Val Ala Phe Cys Ala Gln Lys Ala
165              170              175

atc cct cat ttc taa tgt gat cct agt gct ctg ctg aag ctt gcc tgc      576
Ile Pro His Phe Tyr Cys Asp Pro Ser Ala Leu Leu Lys Leu Ala Cys
180              185              190

tca gat acc cat gta aac gag ctg atg atc atc acc atg gcc ttg ctg      624
Ser Asp Thr His Val Asn Glu Leu Met Ile Ile Thr Met Gly Leu Leu
195              200              205

ttc ctg act gtt ccc ctg ctg atc gtc ttc tcc tat gtc cgc att      672
Phe Leu Thr Val Pro Leu Leu Leu Ile Val Phe Ser Tyr Val Arg Ile
210              215              220

ttc tgg gct gtg ttt gtc atc tca tct cct gga ggg aga tgg aag gcc      720
Phe Trp Ala Val Phe Val Ile Ser Ser Pro Gly Gly Arg Trp Lys Ala
225              230              235              240

ttc tct acc tgt ggt tct cat ctg acg gtg gtt ctg ctg ttc tat ggg      768
Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Leu Leu Phe Tyr Gly
245              250              255

tct ctt atg ggt gtg tat tta ctt cct cca tca act tac tct aca gag      816
Ser Leu Met Gly Val Tyr Leu Leu Pro Pro Ser Thr Tyr Ser Thr Glu
260              265              270

agg gaa agt agg gct gct gtt ctg tat atg gtg att att ccc acg cta      864
Arg Glu Ser Arg Ala Ala Val Leu Tyr Met Val Ile Ile Pro Thr Leu
275              280              285

aac cca ttc att tat agc ttg agg aac aga gac atg aag gag gct ttg      912
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu
290              295              300

ggt aaa ctt ttt gtc agt gga aaa aca ttc ttt tta tga      951
Gly Lys Leu Phe Val Ser Gly Lys Thr Phe Phe Leu
305              310              315

<210> 96
<211> 316
<212> PRT
<213> Homo Sapiens

<400> 96
Met Gly Lys Pro Gly Arg Val Asn Gln Thr Thr Val Ser Asp Phe Leu
1              5              10              15

Leu Leu Gly Leu Ser Glu Trp Pro Glu Glu Gln Pro Leu Leu Phe Gly
20              25              30

Ile Phe Leu Gly Met Tyr Leu Val Thr Met Val Gly Asn Leu Leu Ile

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35 40 45
 Ile Leu Ala Ile Ser Ser Asp Pro His Leu His Thr Pro Met Tyr Phe
 50 55 60
 Phe Leu Ala Asn Leu Ser Leu Thr Asp Ala Cys Phe Thr Ser Ala Ser
 65 70 75 80
 Ile Pro Lys Met Leu Ala Asn Ile His Thr Gln Ser Gln Ile Ile Ser
 85 90 95
 Tyr Ser Gly Cys Leu Ala Gln Leu Tyr Phe Leu Leu Met Phe Gly Gly
 100 105 110
 Leu Asp Asn Cys Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys Gln Pro Leu His Tyr Ser Thr Ser Met Ser Pro Gln Leu Cys
 130 135 140
 Ala Leu Met Leu Gly Val Cys Trp Val Leu Thr Asn Cys Pro Ala Leu
 145 150 155 160
 Met His Thr Leu Leu Leu Thr Arg Val Ala Phe Cys Ala Gln Lys Ala
 165 170 175
 Ile Pro His Phe Tyr Cys Asp Pro Ser Ala Leu Leu Lys Leu Ala Cys
 180 185 190
 Ser Asp Thr His Val Asn Glu Leu Met Ile Ile Thr Met Gly Leu Leu
 195 200 205
 Phe Leu Thr Val Pro Leu Leu Leu Ile Val Phe Ser Tyr Val Arg Ile
 210 215 220
 Phe Trp Ala Val Phe Val Ile Ser Ser Pro Gly Gly Arg Trp Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Leu Leu Phe Tyr Gly
 245 250 255
 Ser Leu Met Gly Val Tyr Leu Leu Pro Pro Ser Thr Tyr Ser Thr Glu
 260 265 270
 Arg Glu Ser Arg Ala Ala Val Leu Tyr Met Val Ile Ile Pro Thr Leu
 275 280 285

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Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu
 290 295 300

Gly Lys Leu Phe Val Ser Gly Lys Thr Phe Phe Leu
 305 310 315

<210> 97
 <211> 975
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(972)
 <223>

<400> 97
 atg gga atg tcc aac ctg aca aga ctc tct gaa ttt att ctc ttg gga 48
 Met Gly Met Ser Asn Leu Thr Arg Leu Ser Glu Phe Ile Leu Leu Gly 15
 1 5 10
 ctc tcc tct cgg tct gaa gac cag agg cca ctc ttt gcc ctc ttt ctt 96
 Leu Ser Ser Arg Ser Glu Asp Gln Arg Pro Leu Phe Ala Leu Phe Leu 30
 20 25 30
 atc ata tac ctg gtc act ttg atg gga aat ctg ctc atc atc ttg gct 144
 Ile Ile Tyr Leu Val Thr Leu Met Gly Asn Leu Leu Ile Ile Leu Ala 45
 35 40 45
 atc cac tct gat cct cga ctt caa aac cct atg tat ttt ttc cta agc 192
 Ile His Ser Asp Pro Arg Leu Gln Asn Pro Met Tyr Phe Phe Leu Ser 60
 50 55 60
 atc ttg tcc ttt gct gat att tgc tac aca aca gtc ata gtc cca aag 240
 Ile Leu Ser Phe Ala Asp Ile Cys Tyr Thr Thr Val Ile Val Pro Lys 80
 65 70 75 80
 atg ctc gtg aac ttc tta tca gag aaa aag acc att tcc tat gct gaa 288
 Met Leu Val Asn Phe Leu Ser Glu Lys Lys Thr Ile Ser Tyr Ala Glu 95
 85 90 95
 tgt ctg gca cag atg tat ttc ttc ctg gtt ttt gga aac ata gat agt 336
 Cys Leu Ala Gln Met Tyr Phe Phe Leu Val Phe Gly Asn Ile Asp Ser 110
 100 105 110
 tat ctc ctg gcg gct atg gcc atc aac cgc tgt gta gcc att tgt aac 384
 Tyr Leu Leu Ala Ala Met Ala Ile Asn Arg Cys Val Ala Ile Cys Asn 125
 115 120 125
 cca ttc cat tat gtc act gtt atg aac cgc aga tgc tgt gtg tgg cta 432
 Pro Phe His Tyr Val Thr Val Met Asn Arg Arg Cys Cys Val Leu Leu 140
 130 135 140
 cta gca ttc ccc atc act ttc tcc tat ttc cac tct ctc cta cat gtc 480
 Leu Ala Phe Pro Ile Thr Phe Ser Tyr Phe His Ser Leu Leu His Val 160
 145 150 155 160

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ctc ctg gtg aat egg ctc acc ttt tgt aca tca aat gtt atc cat cat      528
Leu Leu Val Asn Arg Leu Thr Phe Cys Thr Ser Asn Val Ile His His
      165      170      175

ttt ttt tgt gat gtc aac cct gtg ctg aaa ctg tcc tgc tcc tcc acc      576
Phe Phe Cys Asp Val Asn Pro Val Leu Lys Leu Ser Cys Ser Ser Thr
      180      185      190

ttt gtc aat gaa att gtg gcc atg aca gaa ggg ctg gcc tct gtg atg      624
Phe Val Asn Glu Ile Val Ala Met Thr Glu Gly Leu Ala Ser Val Met
      195      200      205

gct cca ttt gtc tgt atc atc atc tct tat cta aga att ctc atc gct      672
Ala Pro Phe Val Cys Ile Ile Ile Ser Tyr Leu Arg Ile Leu Ile Ala
      210      215      220

gtt ctc aag att ccc tca gca gct gga aaa cac aaa gcc ttc tcc acc      720
Val Leu Lys Ile Pro Ser Ala Ala Gly Lys His Lys Ala Phe Ser Thr
      225      230      235      240

tgc agc tcc cat ctc act gtg gtg att ctg ttt tat ggg agt att agc      768
Cys Ser Ser His Leu Thr Val Val Ile Leu Phe Tyr Gly Ser Ile Ser
      245      250      255

tat gtc tat ttg cag cct ttg tcc agc tat act gtc aag gac cga ata      816
Tyr Val Tyr Leu Gln Pro Leu Ser Ser Tyr Thr Val Lys Asp Arg Ile
      260      265      270

gca aca atc aac tac act gtg ttg aca tca gtg ttg aac cca ttt atc      864
Ala Thr Ile Asn Tyr Thr Val Leu Thr Ser Val Leu Asn Pro Phe Ile
      275      280      285

tac agt tta aga aac aaa gac atg aaa cgg ggc tta cag aca ttg ata      912
Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Gln Lys Leu Ile
      290      295      300

aac aag att aag tct caa atg agt agg ttc tct aca aag acc aat aaa      960
Asn Lys Ile Lys Ser Gln Met Ser Arg Phe Ser Thr Lys Thr Asn Lys
      305      310      315      320

atc tgt gga ccc tga      975
Ile Cys Gly Pro

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<210> 98
<211> 324
<212> PRT
<213> Homo Sapiens

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<400> 98

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Met Gly Met Ser Asn Leu Thr Arg Leu Ser Glu Phe Ile Leu Leu Gly
1      5      10      15

Leu Ser Ser Arg Ser Glu Asp Gln Arg Pro Leu Phe Ala Leu Phe Leu
20      25      30

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Ile Ile Tyr Leu Val Thr Leu Met Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Ile His Ser Asp Pro Arg Leu Gln Asn Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Ile Leu Ser Phe Ala Asp Ile Cys Tyr Thr Thr Val Ile Val Pro Lys
 65 70 75 80
 Met Leu Val Asn Phe Leu Ser Glu Lys Lys Thr Ile Ser Tyr Ala Glu
 85 90 95
 Cys Leu Ala Gln Met Tyr Phe Phe Leu Val Phe Gly Asn Ile Asp Ser
 100 105 110
 Tyr Leu Leu Ala Ala Met Ala Ile Asn Arg Cys Val Ala Ile Cys Asn
 115 120 125
 Pro Phe His Tyr Val Thr Val Met Asn Arg Arg Cys Cys Val Leu Leu
 130 135 140
 Leu Ala Phe Pro Ile Thr Phe Ser Tyr Phe His Ser Leu Leu His Val
 145 150 155 160
 Leu Leu Val Asn Arg Leu Thr Phe Cys Thr Ser Asn Val Ile His His
 165 170 175
 Phe Phe Cys Asp Val Asn Pro Val Leu Lys Leu Ser Cys Ser Ser Thr
 180 185 190
 Phe Val Asn Glu Ile Val Ala Met Thr Glu Gly Leu Ala Ser Val Met
 195 200 205
 Ala Pro Phe Val Cys Ile Ile Ile Ser Tyr Leu Arg Ile Leu Ile Ala
 210 215 220
 Val Leu Lys Ile Pro Ser Ala Ala Gly Lys His Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ser Ser His Leu Thr Val Val Ile Leu Phe Tyr Gly Ser Ile Ser
 245 250 255
 Tyr Val Tyr Leu Gln Pro Leu Ser Ser Tyr Thr Val Lys Asp Arg Ile
 260 265 270
 Ala Thr Ile Asn Tyr Thr Val Leu Thr Ser Val Leu Asn Pro Phe Ile

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275                280                285

Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Gln Lys Leu Ile
290                295                300

Asn Lys Ile Lys Ser Gln Met Ser Arg Phe Ser Thr Lys Thr Asn Lys
305                310                315                320

Ile Cys Gly Pro

<210> 99
<211> 936
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(933)
<223>

<400> 99
atg gaa aac caa tcc agc att tct gaa ttt ttc ctc cga gga ata tca      48
Met Glu Asn Gln Ser Ser Ile Ser Glu Phe Phe Leu Arg Gly Ile Ser
1      5      10      15

gcg cct cca gag caa cag cag tcc ctc ttc gga att ttc ctg tgt atg      96
Ala Pro Pro Glu Gln Gln Gln Ser Leu Phe Gly Ile Phe Leu Cys Met
20      25      30

tat ctt gtc acc ttg act ggg aac ctg ctc atc atc ctg gcc att ggc      144
Tyr Leu Val Thr Leu Thr Gly Asn Leu Leu Ile Ile Leu Ala Ile Gly
35      40      45

tct gac ctg cac ctc cac acc ccc atg tac ttt ttc ttg gcc aac ctg      192
Ser Asp Leu His Leu His Thr Pro Met Tyr Phe Phe Leu Ala Asn Leu
50      55      60

tct ttt gtt gac atg ggt tta acg tcc tcc aca gtt acc aag atg ctg      240
Ser Phe Val Asp Met Gly Leu Thr Ser Ser Thr Val Thr Lys Met Leu
65      70      75      80

gtg aat ata cag act cgg cat cac acc atc tcc tat acg ggt tgc ctc      288
Val Asn Ile Gln Thr Arg His His Thr Ile Ser Tyr Thr Gly Cys Leu
85      90      95

acg caa atg tat ttc ttt ctg atg ttt ggt gat cta gac agc ttc ttc      336
Thr Gln Met Tyr Phe Phe Leu Met Phe Gly Asp Leu Asp Ser Phe Phe
100      105      110

ctg gct gcc atg gcg tat gac cgc tat gtg gcc att tgc cac ccc ctc      384
Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu
115      120      125

tgc tac tcc aca gtc atg agy ccc caa gtc tgt gcc cta atg ctt gca      432
Cys Tyr Ser Thr Val Met Arg Pro Gln Val Cys Ala Leu Met Leu Ala

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130	135	140	
ttg tgc tgg gtc ctc acc aat atc gtt gcc ctg act cac acg ttc ctc			480
Leu Cys Trp Val Leu Thr Asn Ile Val Ala Leu Thr His Thr Phe Leu			
145	150	155	160
atg gct cgg ttg tcc ttc tgt gtg act ggg gaa att gct cac ttt ttc			528
Met Ala Arg Leu Ser Phe Cys Val Thr Gly Glu Ile Ala His Phe Phe			
165	170	175	
tgt gac atc act cct gtc ctg aag ctg tca tgt tct gac acc cac atc			576
Cys Asp Ile Thr Pro Val Leu Lys Leu Ser Cys Ser Asp Thr His Ile			
180	185	190	
aac gag atg atg gtt ttt gtc ttg gga ggc acc gta ctc atc gtc ccc			624
Asn Glu Met Met Val Phe Val Leu Gly Gly Thr Val Leu Ile Val Pro			
195	200	205	
ttt tta tgc att gtc acc tcc tac atc cac att gtg cca gct atc ctg			672
Phe Leu Cys Ile Val Thr Ser Tyr Ile His Ile Val Pro Ala Ile Leu			
210	215	220	
aga gtc cga acc cgt ggt ggg gtg ggc aag gcc ttt tcc acc tgc agt			720
Arg Val Arg Thr Arg Gly Gly Val Gly Lys Ala Phe Ser Thr Cys Ser			
225	230	235	240
tcc cac ctc tgc gtt gtt tgt gtg ttc tat ggg acc ctc ttc agt gcc			768
Ser His Leu Cys Val Val Cys Val Phe Tyr Gly Thr Leu Phe Ser Ala			
245	250	255	
tac ctg tgt cct ccc tcc att gcc tct gaa gag aag gac att gca gca			816
Tyr Leu Cys Pro Pro Ser Ile Ala Ser Glu Glu Lys Asp Ile Ala Ala			
260	265	270	
gct gca atg tac acc ata gtg act ccc atg ttg aac ccc ttt atc tat			864
Ala Ala Met Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Phe Ile Tyr			
275	280	285	
agc cta agg aac aag gac atg aag ggg gcc cta aag agg ctc ttc agt			912
Ser Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Lys Arg Leu Phe Ser			
290	295	300	
cac agg agt att gtt tcc tct tag			936
His Arg Ser Ile Val Ser Ser			
305	310		
<210> 100 <211> 311 <212> PRT <213> Homo Sapiens <400> 100 Met Glu Asn Gln Ser Ser Ile Ser Glu Phe Phe Leu Arg Gly Ile Ser 1 5 10 15 Ala Pro Pro Glu Gln Gln Gln Ser Leu Phe Gly Ile Phe Leu Cys Met 20 25 30			

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Tyr Leu Val Thr Leu Thr Gly Asn Leu Leu Ile Ile Leu Ala Ile Gly
 35 40 45
 Ser Asp Leu His Leu His Thr Pro Met Tyr Phe Phe Leu Ala Asn Leu
 50 55 60
 Ser Phe Val Asp Met Gly Leu Thr Ser Ser Thr Val Thr Lys Met Leu
 65 70 75 80
 Val Asn Ile Gln Thr Arg His His Thr Ile Ser Tyr Thr Gly Cys Leu
 85 90 95
 Thr Gln Met Tyr Phe Phe Leu Met Phe Gly Asp Leu Asp Ser Phe Phe
 100 105 110
 Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu
 115 120 125
 Cys Tyr Ser Thr Val Met Arg Pro Gln Val Cys Ala Leu Met Leu Ala
 130 135 140
 Leu Cys Trp Val Leu Thr Asn Ile Val Ala Leu Thr His Thr Phe Leu
 145 150 155 160
 Met Ala Arg Leu Ser Phe Cys Val Thr Gly Glu Ile Ala His Phe Phe
 165 170 175
 Cys Asp Ile Thr Pro Val Leu Lys Leu Ser Cys Ser Asp Thr His Ile
 180 185 190
 Asn Glu Met Met Val Phe Val Leu Gly Gly Thr Val Leu Ile Val Pro
 195 200 205
 Phe Leu Cys Ile Val Thr Ser Tyr Ile His Ile Val Pro Ala Ile Leu
 210 215 220
 Arg Val Arg Thr Arg Gly Gly Val Gly Lys Ala Phe Ser Thr Cys Ser
 225 230 235 240
 Ser His Leu Cys Val Val Cys Val Phe Tyr Gly Thr Leu Phe Ser Ala
 245 250 255
 Tyr Leu Cys Pro Pro Ser Ile Ala Ser Glu Glu Lys Asp Ile Ala Ala
 260 265 270

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Ala Ala Met Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
 375 280 295

Ser Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Lys Arg Leu Phe Ser
 290 295 300

His Arg Ser Ile Val Ser Ser
 305 310

<210> 101
 <211> 942
 <212> DNA
 <213> Homo Sapiens

<220>
 <231> CDS
 <222> (1)..(939)
 <223>

<400> 101
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 Met Lys Arg Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Leu Asp
 1 5 10 15
 ctc ccc atc tgg cca gag cag cag gct gtg ttc ttc acc ctg ttc ttg 96
 Leu Pro Ile Thr Pro Glu Gln Gln Ala Val Phe Phe Thr Leu Phe Leu
 20 25 30
 ggc atg tac ctg atc acg gtg ctg ggg aac ctg ctc atc atc ctg ctc 144
 Gly Met Tyr Leu Ile Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Leu
 35 40 45
 atc cgg ctg gac tct cac ctt cac acc ccc atg ttc ttc ttc ctc agc 192
 Ile Arg Leu Asp Ser His Leu His Thr Pro Met Phe Phe Phe Leu Ser
 50 55 60
 cac ttg gct ctc acc gac atc tcc ctt tca tct gtc act gtc cca aag 240
 His Leu Ala Leu Thr Asp Ile Ser Leu Ser Ser Val Thr Val Pro Lys
 65 70 75 80
 atg tta tta agc atg caa act cag gat caa tcc att ctt tat gca ggg 288
 Met Leu Leu Ser Met Gln Thr Gln Asp Gln Ser Ile Leu Tyr Ala Gly
 85 90 95
 tgt gta act cag atg tat ttt ttc ata ttt ttc act gat cta gac aat 336
 Cys Val Thr Gln Met Tyr Phe Phe Ile Phe Phe Thr Asp Leu Asp Asn
 100 105 110
 ttc ctt ctc act tca atg gca tac gat cgg tat gtg gcc atc tgt cac 384
 Phe Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 ccc ctc cgc tac acc act atc atg aaa gag gga ctg tgt aac tta cta 432
 Pro Leu Arg Tyr Thr Thr Ile Met Lys Glu Gly Leu Cys Asn Leu Leu
 130 135 140
 gtc act gtg tcc tgg atc ctc tcc tgt acc aat gcc ctg tct cac act 480

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Val Thr Val Ser Trp Ile Leu Ser Cys Thr Asn Ala Leu Ser His Thr
145          150          155          160

ctc ctc ctg gcc cag ctg tcc ttt tgt gct gac aac acc atc ccc cat      528
Leu Leu Leu Ala Gln Leu Ser Phe Cys Ala Asp Asn Thr Ile Pro His
          165          170          175

ttc ttc tgt gat ctt gtt gcc cta ctc aag ctc tca tgc tca gac atc      576
Phe Phe Cys Asp Leu Val Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile
          180          185          190

tcc ctc aat gag ctg gtc att ttc aca gtg gga cag gca gtc att act      624
Ser Leu Asn Glu Leu Val Ile Phe Thr Val Gly Gln Ala Val Ile Thr
          195          200          205

cta cca cta ata tgc atc ttg atc tct tat gcc cac att ggg gtc acc      672
Leu Pro Leu Ile Cys Ile Leu Ile Ser Tyr Gly His Ile Gly Val Thr
          210          215          220

atc ctc aag gct cca tct act aag ggc atc ttc aaa gct ttg tcc acc      720
Ile Leu Lys Ala Pro Ser Thr Lys Gly Ile Phe Lys Ala Leu Ser Thr
          225          230          235          240

tgt gcc tct cac ctc tct gtg gtg tct ctg tat tat gcc aca att att      768
Cys Gly Ser His Leu Ser Val Val Ser Leu Tyr Tyr Gly Thr Ile Ile
          245          250          255

gga ctg tat ttt ctc ccc tca tcc agt gcc tcc agt gac aag gac gta      816
Gly Leu Tyr Phe Leu Pro Ser Ser Ala Ser Ser Asp Lys Asp Val
          260          265          270

att gcc tct gtg atg tac acg gtg atc acc cca ttg ctg aat ccc ttc      864
Ile Ala Ser Val Met Tyr Thr Val Ile Thr Pro Leu Leu Asn Pro Phe
          275          280          285

att tat agc cta agg aac agg gac ata aag gga gcc ctg gag aga ctc      912
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Ala Leu Glu Arg Leu
          290          295          300

ttc aac agg gca aca gtc tta tct caa tga      942
Phe Asn Arg Ala Thr Val Leu Ser Gln
          305          310

<210> 102
<211> 313
<212> PRT
<213> Homo Sapiens

<400> 102
Met Lys Arg Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Leu Asp
1          5          10          15

Leu Pro Ile Trp Pro Glu Gln Gln Ala Val Phe Phe Thr Leu Phe Leu
          20          25          30

Gly Met Tyr Leu Ile Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Leu
          35          40          45

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Ile Arg Leu Asp Ser His Leu His Thr Pro Met Phe Phe Phe Leu Ser
 50 55 60
 His Leu Ala Leu Thr Asp Ile Ser Leu Ser Ser Val Thr Val Pro Lys
 65 70 75 80
 Met Leu Leu Ser Met Gln Thr Gln Asp Gln Ser Ile Leu Tyr Ala Gly
 85 90 95
 Cys Val Thr Glu Met Tyr Phe Phe Ile Phe Phe Thr Asp Leu Asp Asn
 100 105 110
 Phe Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu Arg Tyr Thr Thr Ile Met Lys Glu Gly Leu Cys Asn Leu Leu
 130 135 140
 Val Thr Val Ser Trp Ile Leu Ser Cys Thr Asn Ala Leu Ser His Thr
 145 150 155 160
 Leu Leu Leu Ala Gln Leu Ser Phe Cys Ala Asp Asn Thr Ile Pro His
 165 170 175
 Phe Phe Cys Asp Leu Val Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile
 180 185 190
 Ser Leu Asn Glu Leu Val Ile Phe Thr Val Gly Gln Ala Val Ile Thr
 195 200 205
 Leu Pro Leu Ile Cys Ile Leu Ile Ser Tyr Gly His Ile Gly Val Thr
 210 215 220
 Ile Leu Lys Ala Pro Ser Thr Lys Gly Ile Phe Lys Ala Leu Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Ser Val Val Ser Leu Tyr Tyr Gly Thr Ile Ile
 245 250 255
 Gly Leu Tyr Phe Leu Pro Ser Ser Ser Ala Ser Ser Asp Lys Asp Val
 260 265 270
 Ile Ala Ser Val Met Tyr Thr Val Ile Thr Pro Leu Leu Asn Pro Phe
 275 280 285

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PCT/BE01/00162

Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Ala Leu Glu Arg Leu
 290 295 300

Phe Asn Arg Ala Thr Val Leu Ser Gln
 305 310

<210> 103
 <211> 930
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(927)
 <223>

<400> 103
 atg gaa aga atc aac cac acc agc agt gtc tcc gag ttt atc ctc ctg 48
 Met Glu Arg Ile Asn His Thr Ser Ser Val Ser Glu Phe Ile Leu Leu
 1 5 10 15
 gga ctc tcc tcc cgg cct gag gac caa aag aca ctc ttt gtt ctc ttc 96
 Gly Leu Ser Ser Arg Pro Glu Asp Gln Lys Thr Leu Phe Val Leu Phe
 20 25 30
 ctc atc gtg tac ctg gtc acc ata aca ggg aac ctg ctc atc atc ctg 144
 Leu Ile Val Tyr Leu Val Thr Ile Thr Gly Asn Leu Leu Ile Ile Leu
 35 40 45
 gcc att cgc ttc aac ccc cat ctt cag acc cct atg tat ttc ttc ttg 192
 Ala Ile Arg Phe Asn Pro His Leu Gln Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 agt ttt ctg tct ctc act gat att tgc ttt aca aca agc gtt gtc ccc 240
 Ser Phe Leu Ser Leu Thr Asp Ile Cys Phe Thr Thr Ser Val Val Pro
 65 70 75 80
 aag atg ctg atg aac ttc ctg tca gaa aag aag acc atc tcc tat gct 288
 Lys Met Leu Met Asn Phe Leu Ser Glu Lys Lys Thr Ile Ser Tyr Ala
 85 90 95
 ggg tgt ctg aca cag atg tat ttt ctc tat gcc ttg gcc aac agt gac 336
 Gly Cys Leu Thr Gln Met Tyr Phe Leu Tyr Ala Leu Gly Asn Ser Asp
 100 105 110
 agc tgc ctt ctg gca gtc atg gcc ttt gac cgc tat gtg gcc gtc tgt 384
 Ser Cys Leu Ala Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys
 115 120 125
 gac cct ttc cac tat gtc acc acc atg agc cac cac cac tgt gtc ctg 432
 Asp Pro Phe His Tyr Val Thr Thr Met Ser His His His Cys Val Leu
 130 135 140
 ctg gtg gcc ttc tcc tgc tca ttt cct cac ctc cac tca ctc ctg cac 480
 Leu Val Ala Phe Ser Cys Ser Phe Pro His Leu His Ser Leu Leu His
 145 150 155 160

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aca ctt ctg ctg aat cgt ctc acc ttc tgt gac tcc aat gtt atc cac      528
Thr Leu Leu Leu Asn Arg Leu Thr Phe Cys Asp Ser Asn Val Ile His
      165      170      175

cac ttt ctc tgt gac ctc agc cct gtg ctg aaa ttg tcc tgc tct tcc      576
His Phe Leu Cys Asp Leu Ser Pro Val Leu Lys Leu Ser Cys Ser Ser
      180      185      190

ata ttt gtc aat gaa att gtg cag atg aca gaa gca cct att gtt ttg      624
Ile Phe Val Asn Glu Ile Val Gln Met Thr Glu Ala Pro Ile Val Leu
      195      200      205

gtg aet cgt ttt ctc tgc att gct ttc tct tat ata cga atc ctc act      672
Val Thr Arg Phe Leu Cys Ile Ala Phe Ser Tyr Ile Arg Ile Leu Thr
      210      215      220

aca gtt ctc aag att ccc tct act tct ggg aaa cgc aaa gcc ttc tcc      720
Thr Val Leu Lys Ile Pro Ser Thr Ser Gly Lys Arg Lys Ala Phe Ser
      225      230      235      240

acc tgt ggt ttt tac ctc acc gtg gtg acg ctc ttt tat gga agc atc      768
Thr Cys Gly Phe Tyr Leu Thr Val Val Thr Leu Phe Tyr Gly Ser Ile
      245      250      255

ttc tgt gtc tat tta cag tcc cca tcc acc tac gct gtc aag gac cac      816
Phe Cys Val Tyr Leu Gln Pro Pro Ser Thr Tyr Ala Val Lys Asp His
      260      265      270

gtg gca aca att gtt tac aca gtt ttg tca tcc atg ctc aat cct ttt      864
Val Ala Thr Ile Val Tyr Thr Val Leu Ser Ser Met Leu Asn Pro Phe
      275      280      285

atc tac agc ctg aga aac aac gac ctg aac cag gcc ctg agg aag ctt      912
Ile Tyr Ser Leu Arg Asn Lys Asp Leu Lys Gln Gly Leu Arg Lys Leu
      290      295      300

atg agc aag aga tcc tag      930
Met Ser Lys Arg Ser
305

<210> 104
<211> 309
<212> PRT
<213> Homo Sapiens

<400> 104
Met Glu Arg Ile Asn His Thr Ser Ser Val Ser Glu Phe Ile Leu Leu
1      5      10      15

Gly Leu Ser Ser Arg Pro Glu Asp Gln Lys Thr Leu Phe Val Leu Phe
20      25      30

Leu Ile Val Tyr Leu Val Thr Ile Thr Gly Asn Leu Leu Ile Ile Leu
35      40      45

Ala Ile Arg Phe Asn Pro His Leu Gln Thr Pro Met Tyr Phe Phe Leu

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50 55 60
 Ser Phe Leu Ser Leu Thr Asp Ile Cys Phe Thr Thr Ser Val Val Pro
 65 70 75 80
 Lys Met Leu Met Asn Phe Leu Ser Glu Lys Lys Thr Ile Ser Tyr Ala
 85 90 95
 Gly Cys Leu Thr Gln Met Tyr Phe Leu Tyr Ala Leu Gly Asn Ser Asp
 100 105 110
 Ser Cys Leu Leu Ala Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys
 115 120 125
 Asp Pro Phe His Tyr Val Thr Thr Met Ser His His His Cys Val Leu
 130 135 140
 Leu Val Ala Phe Ser Cys Ser Phe Pro His Leu His Ser Leu Leu His
 145 150 155 160
 Thr Leu Leu Leu Asn Arg Leu Thr Phe Cys Asp Ser Asn Val Ile His
 165 170 175
 His Phe Leu Cys Asp Leu Ser Pro Val Leu Lys Leu Ser Cys Ser Ser
 180 185 190
 Ile Phe Val Asn Glu Ile Val Gln Met Thr Glu Ala Pro Ile Val Leu
 195 200 205
 Val Thr Arg Phe Leu Cys Ile Ala Phe Ser Tyr Ile Arg Ile Leu Thr
 210 215 220
 Thr Val Leu Lys Ile Pro Ser Thr Ser Gly Lys Arg Lys Ala Phe Ser
 225 230 235 240
 Thr Cys Gly Phe Tyr Leu Thr Val Val Thr Leu Phe Tyr Gly Ser Ile
 245 250 255
 Phe Cys Val Tyr Leu Gln Pro Pro Ser Thr Tyr Ala Val Lys Asp His
 260 265 270
 Val Ala Thr Ile Val Tyr Thr Val Leu Ser Ser Met Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Leu Lys Gln Gly Leu Arg Lys Leu
 290 295 300

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Met Ser Lys Arg Ser
305<210> 105
<211> 930
<212> DNA
<213> Homo Sapiens<220>
<221> CDS
<222> (1)...(927)
<223>

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<400> 105
atg gct gca gga aat cac tct aca gtg aca gag ttc att ctc aag ggt      48
Met Ala Ala Gly Asn His Ser Thr Val Thr Glu Phe Ile Leu Lys Gly
1      5      10      15

tta acg aag aga gca gac ctc cag ctc ccc ctc ttt ctc ctc ttc ctc      96
Leu Thr Lys Arg Ala Asp Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
20     25     30

ggg atc tac ttg gtc acc atc gtg ggg aac ctg ggc atg atc act cta      144
Gly Ile Tyr Leu Val Thr Ile Val Gly Asn Leu Gly Met Ile Thr Leu
35     40     45

att tgt ctg aac tct cag ctg cac acc ccc atg tac tac ttt ctc agc      192
Ile Cys Leu Asn Ser Gln Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
50     55     60

aat ctg tca ctc atg gat ctc tgc tac tcc tcc gtc att acc cct aag      240
Asn Leu Ser Leu Met Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys
65     70     75     80

atg ctg gtg aac ttt gtg tca gag aaa aac atc atc tcc tac gca ggg      288
Met Leu Val Asn Phe Val Ser Glu Lys Asn Ile Ile Ser Tyr Ala Gly
85     90     95

tgc atg tca cag ctc tac ttc ttc ott gtt ttt gtc att got gag tgt      336
Cys Met Ser Gln Leu Tyr Phe Phe Leu Val Phe Val Ile Ala Glu Cys
100    105    110

tac atg ctg aca gtg atg gcc tac gac cgc tat gtt gcc atc tgc cac      384
Tyr Met Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
115    120    125

cct ttg ctt tac aac atc att atg tct cat cac acc tgc ctg ctg ctg      432
Pro Leu Leu Tyr Asn Ile Ile Met Ser His His Thr Cys Leu Leu Leu
130    135    140

gtg gct gtg gtc tac gcc atc gga ctc att ggc tcc aca ata gaa act      480
Val Ala Val Val Tyr Ala Ile Gly Leu Ile Gly Ser Thr Ile Glu Thr
145    150    155    160

ggc ctc atg tta aaa ctg ccc tat tgt gag cac ctc atc agt cac tac      528
Gly Leu Met Leu Lys Leu Pro Tyr Cys Glu His Leu Ile Ser His Tyr
165    170    175

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ttc tgt gac atc ctc cct ctc atg aag ctg tcc tgc tct agc acc tat      576
Phe Cys Asp Ile Leu Pro Leu Met Lys Leu Ser Cys Ser Ser Thr Tyr
      180              185              190

gat gtt gag atg aca gtc ttc ttt tgg gct gga ttc aac atc ata gtc      624
Asp Val Glu Met Thr Val Phe Phe Ser Ala Gly Phe Asn Ile Ile Val
      195              200              205

acg agc tta aca gtt ctt gtt tct tac acc ttc att ctc tcc agc atc      672
Thr Ser Leu Thr Val Leu Val Ser Tyr Thr Phe Ile Leu Ser Ser Ile
      210              215              220

ctc ggc atc agc acc aca gag ggg aga tcc aaa gcc ttc agc acc tgc      720
Leu Gly Ile Ser Thr Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys
      225              230              235              240

agc tcc cac ctt gca gcc gtg gga atg ttc tat gga tca act gca ttc      768
Ser Ser His Leu Ala Ala Val Gly Met Phe Tyr Gly Ser Thr Ala Phe
      245              250              255

atg tac tta aaa ccc tcc aca atc agt tcc ttg acc cag gag aat gtg      816
Met Tyr Leu Lys Pro Ser Thr Ile Ser Ser Leu Thr Gln Asn Val
      260              265              270

gcc tct gtg ttc tac acc acg gta atc ccc atg ttg aat ccc cta atc      864
Ala Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu Ile
      275              280              285

tac agc ctg agg aac aag gaa gta aag gct gcc gtg cag aaa acg ctg      912
Tyr Ser Leu Arg Asn Lys Glu Val Lys Ala Ala Val Gln Lys Thr Leu
      290              295              300

agg ggt aaa ctg ttt tga
Arg Gly Lys Leu Phe
305

<210> 106
<211> 309
<212> PRT
<213> Homo Sapiens

<400> 106
Met Ala Ala Gly Asn His Ser Thr Val Thr Glu Phe Ile Leu Lys Gly
1      5      10      15
Leu Thr Lys Arg Ala Asp Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
20     25     30
Gly Ile Tyr Leu Val Thr Ile Val Gly Asn Leu Gly Met Ile Thr Leu
35     40     45
Ile Cys Leu Asn Ser Gln Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
50     55     60

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Asn Leu Ser Leu Met Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys
 65 70 75 80
 Met Leu Val Asn Phe Val Ser Glu Lys Asn Ile Ile Ser Tyr Ala Gly
 85 90 95
 Cys Met Ser Gln Leu Tyr Phe Phe Leu Val Phe Val Ile Ala Glu Cys
 100 105 110
 Tyr Met Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu Leu Tyr Asn Ile Ile Met Ser His His Thr Cys Leu Leu Leu
 130 135 140
 Val Ala Val Val Tyr Ala Ile Gly Leu Ile Gly Ser Thr Ile Glu Thr
 145 150 155 160
 Gly Leu Met Leu Lys Leu Pro Tyr Cys Glu His Leu Ile Ser His Tyr
 165 170 175
 Phe Cys Asp Ile Leu Pro Leu Met Lys Leu Ser Cys Ser Ser Thr Tyr
 180 185 190
 Asp Val Glu Met Thr Val Phe Phe Ser Ala Gly Phe Asn Ile Ile Val
 195 200 205
 Thr Ser Leu Thr Val Leu Val Ser Tyr Thr Phe Ile Leu Ser Ser Ile
 210 215 220
 Leu Gly Ile Ser Thr Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Ser Ser His Leu Ala Ala Val Gly Met Phe Tyr Gly Ser Thr Ala Phe
 245 250 255
 Met Tyr Leu Lys Pro Ser Thr Ile Ser Ser Leu Thr Gln Glu Asn Val
 260 265 270
 Ala Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Ala Ala Val Gln Lys Thr Leu
 290 295 300
 Arg Gly Lys Leu Phe

WO 02/24726

PCT/BE01/00162

305

<210> 107
 <211> 963
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(960)
 <223>

<400> 107
 atg agt tcc tgc aac ttc aca cat gcc acc tgt gtg ctt att ggt atc 48
 Met Ser Ser Cys Asn Phe Thr His Ala Thr Cys Val Leu Ile Gly Ile
 1 5 10 15
 cca gga tta gag aaa gcc cat ttc tgg gtt ggc ttc ccc ctc ctt tcc 96
 Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
 20 25 30
 atg tat gta gtg gca atg tgt gga aac tgc atc gtg gtc ttc atc gta 144
 Met Tyr Val Val Ala Met Cys Gly Asn Cys Ile Val Val Phe Ile Val
 35 40 45
 agg acg gaa cgc agc ctg cac gct ccg atg tac ctc ttt ctc tgc atg 192
 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
 50 55 60
 ctt gca gcc att gac ctg gcc tta tcc aca tcc acc atg gct aag atc 240
 Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
 65 70 75 80
 ctt gcc ctt ttc tgg ttt gat tcc cga gag att agc att gag gcc tgt 288
 Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Ile Glu Ala Cys
 85 90 95
 ctt acc cag atg ttc ttt att cat gcc ctc tca gcc att gaa tcc acc 336
 Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
 100 105 110
 atc ctg ctg gcc atg gcc ttt gac cgt tat gtg gcc atc tgc cac cca 384
 Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
 115 120 125
 ctg cgc cat gct gca gtg ctc aac aat aca gta aca gcc cag att gcc 432
 Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
 130 135 140
 atc gtg gct gtg gtc cgc gga tcc ctc ttt ttt ttc cca ctg cct ctg 480
 Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
 145 150 155 160
 ctg atc aag cgg ctg gcc ttc tgc cac tcc aat gtc ctc tgg cac tcc 528
 Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
 165 170 175
 tat tgt gtc cac cag gat gta atg aag ttg gcc tat gca gac act ttg 576
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu

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      180              185              190
ccc aat ggc gta tat ggt ctt act gcc att ctg ctg gtc atg ggc gtg      624
Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
      195              200              205

gac gta atg ttc atc tcc ttg tcc tat ttt ctg ata ata cga acg gtt      672
Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
      210              215              220

ctg caa ctg cct tcc aag tca gag cgg gcc aag gcc ttt gga acc tgt      720
Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
      225              230              235              240

gtg tca cac att ggt gtg gta ctc gcc ttc tat gtg cca ctt att ggc      752
Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
      245              250              255

ctc tca gtt gta cac cgc ttt gga aac agc ott cat ccc att gtg cgt      816
Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
      260              265              270

gtt gtc atg ggt gac atc tac ctg ctg ctg cct cct gtc atc aat ccc      864
Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
      275              280              285

atc atc tat ggt gcc aaa acc aaa cag atc aga aca cgg gtg ctg gct      912
Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
      290              295              300

atg ttc aag atc agc tgt gac aag gac ttg cag gct gtg gga ggc aag      960
Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
      305              310              315              320

tga      963

<210> 108
<211> 320
<212> PRT
<213> Homo Sapiens

<400> 108
Met Ser Ser Cys Asn Phe Thr His Ala Thr Cys Val Leu Ile Gly Ile
1          5          10          15

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
20         25         30

Met Tyr Val Val Ala Met Cys Gly Asn Cys Ile Val Val Phe Ile Val
35         40         45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
50         55         60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile

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PCT/BE01/00162

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65              70              75              80
Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Ile Glu Ala Cys
      85              90              95
Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
      100             105             110
Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
      115             120             125
Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
      130             135             140
Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
      145             150             155             160
Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
      165             170             175
Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
      180             185             190
Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
      195             200             205
Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
      210             215             220
Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
      225             230             235             240
Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
      245             250             255
Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
      260             265             270
Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
      275             280             285
Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
      290             295             300
Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
      305             310             315             320

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<210> 109
 <211> 933
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(930)
 <223>

<400> 109
 atg gca gcc aaa aac tct tct gtg aca gag ttt atc ctc gaa ggc tta 48
 Met Ala Ala Lys Asn Ser Ser Val Thr Gln Phe Ile Leu Glu Gly Leu
 1 5 10 15
 acc cac cag cag gga ctg cgg atc ccc ctc ttc ttc ctg ttt ctg ggt 96
 Thr His Gln Pro Gly Leu Arg Ile Pro Leu Phe Phe Leu Phe Leu Gly
 20 25 30
 ttc tac acg gtc acc gtg gtg ggg aac ctg ggc ttg ata acc ctg att 144
 Phe Tyr Thr Val Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu Ile
 35 40 45
 ggg ctg aac tct cac ctg cac act ccc atg tac ttc ttc ctt ttt aac 192
 Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn
 50 55 60
 ctc tct tta ata gat ttc tgt ttc tcc act acc atc act ccc aaa atg 240
 Leu Ser Leu Ile Asp Phe Cys Phe Ser Thr Thr Ile Thr Pro Lys Met
 65 70 75 80
 ctg atg agt ttt gtc tca agg aag aac atc att tcc ttc aca ggg tgt 288
 Leu Met Ser Phe Val Ser Arg Lys Asn Ile Ile Ser Phe Thr Gly Cys
 85 90 95
 atg act cag ctc ttc ttc ttc tgc ttc ttt gtc gtc tct gag tcc ttc 336
 Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Val Ser Glu Ser Phe
 100 105 110
 atc ctg tca gcg atg gcg tat gac cgc tac gtg gcc atc tgt aac cca 384
 Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
 115 120 125
 ctg ttg tac aca gtc acc atg tct tgc cag gtg tgt ttg ctc ctt ttg 432
 Leu Leu Tyr Thr Val Thr Met Ser Cys Gln Val Cys Leu Leu Leu Leu
 130 135 140
 ttg ggt gcc tat ggg atg ggg ttt gct ggg gcc atg gcc cac aca gga 480
 Leu Gly Ala Tyr Gly Met Gly Phe Ala Gly Ala Met Ala His Thr Gly
 145 150 155 160
 agc ata atg aac ctg acc ttc tgt gct gac aac ctt gtc aat cat ttc 528
 Ser Ile Met Asn Leu Thr Phe Cys Ala Asp Asn Leu Val Asn His Phe
 165 170 175
 atg tgt gac atc ctt cct ctc ctt gag ctc tcc tgc aac agc tct tac 576
 Met Cys Asp Ile Leu Pro Leu Leu Glu Leu Ser Cys Asn Ser Ser Tyr
 180 185 190

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PCT/BE01/00162

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atg aat gag ctg gtg gtc ttt att gtg gtg gct gtt gac gtt gga atg      624
Met Asn Glu Leu Val Val Phe Ile Val Val Ala Val Asp Val Gly Met
      195              200              205

ccc att gtc act gtc ttt att tct tat gcc ctg atc ctg tcc agc att      672
Pro Ile Val Thr Val Phe Ile Ser Tyr Ala Leu Ile Leu Ser Ser Ile
      210              215              220

cta cac aac agt tct aca gaa ggc agg tcc aaa gcc ttt agt act tgc      720
Leu His Asn Ser Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys
      225              230              235              240

agt tcc cac ata att gta gtt tct ctt ttc ttt ggt tct ggt gct ttc      768
Ser Ser His Ile Ile Val Val Ser Leu Phe Phe Gly Ser Gly Ala Phe
      245              250              255

atg tat ctg aaa ccc ctt tcc atc ctg ccc ctg gag caa ggg aaa gtg      816
Met Tyr Leu Lys Pro Leu Ser Ile Leu Pro Leu Glu Gln Gly Lys Val
      260              265              270

tcc tcc ctg ttc tat acc ata ata gtc ccc gtg tta aac cca tta atc      864
Ser Ser Leu Phe Tyr Thr Ile Ile Val Pro Val Leu Asn Pro Leu Ile
      275              280              285

tat agc ttg agg aac aag gat gtc aaa gtt gcc ctg agg aga act ttg      912
Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Arg Thr Leu
      290              295              300

ggc aga aaa atc ttt tct taa      933
Gly Arg Lys Ile Phe Ser
      305              310

<210> 110
<211> 310
<212> PRT
<213> Homo Sapiens

<400> 110
Met Ala Ala Lys Asn Ser Ser Val Thr Glu Phe Ile Leu Glu Gly Leu
1      5      10      15

Thr His Gln Pro Gly Leu Arg Ile Pro Leu Phe Phe Leu Phe Leu Gly
20     25     30

Phe Tyr Thr Val Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu Ile
35     40     45

Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn
50     55     60

Leu Ser Leu Ile Asp Phe Cys Phe Ser Thr Thr Ile Thr Pro Lys Met
65     70     75     80

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PCT/BE01/00162

Leu Met Ser Phe Val Ser Arg Lys Asn Ile Ile Ser Phe Thr Gly Cys
 85 90 95
 Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Val Ser Glu Ser Phe
 100 105 110
 Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
 115 120 125
 Leu Leu Tyr Thr Val Thr Met Ser Cys Gln Val Cys Leu Leu Leu Leu
 130 135 140
 Leu Gly Ala Tyr Gly Met Gly Phe Ala Gly Ala Met Ala His Thr Gly
 145 150 155 160
 Ser Ile Met Asn Leu Thr Phe Cys Ala Asp Asn Leu Val Asn His Phe
 165 170 175
 Met Cys Asp Ile Leu Pro Leu Leu Glu Leu Ser Cys Asn Ser Ser Tyr
 180 185 190
 Met Asn Glu Leu Val Val Phe Ile Val Val Ala Val Asp Val Gly Met
 195 200 205
 Pro Ile Val Thr Val Phe Ile Ser Tyr Ala Leu Ile Leu Ser Ser Ile
 210 215 220
 Leu His Asn Ser Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Ser Ser His Ile Ile Val Val Ser Leu Phe Phe Gly Ser Gly Ala Phe
 245 250 255
 Met Tyr Leu Lys Pro Leu Ser Ile Leu Pro Leu Glu Gln Gly Lys Val
 260 265 270
 Ser Ser Leu Phe Tyr Thr Ile Ile Val Pro Val Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Arg Thr Leu
 290 295 300
 Gly Arg Lys Ile Phe Ser
 305 310

<210> 111

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<211> 951
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(948)
 <223>

<400> 111
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 Met Pro Met Thr Met Ala Ala Gln Asn Ser Ser Phe Val Thr Gln
 1 5 10 15
 ttt atc ctc gca ggc tta aat gac caa cgg gga gtc cag atc ccc ctc 96
 Phe Ile Leu Ala Gly Leu Thr Asp Gln Pro Gly Val Gln Ile Pro Leu
 20 25 30
 ttc ttc ctg ttt cta ggc ttc tac gtg gtc act gtg gtg ggg aac ctg 144
 Phe Phe Leu Phe Leu Gly Phe Tyr Val Val Thr Val Val Gly Asn Leu
 35 40 45
 ggc ttg ata acc ctg ata agg ctc aac tct cac ttg cac acc cct atg 192
 Gly Leu Ile Thr Leu Ile Arg Leu Asn Ser His Leu His Thr Pro Met
 50 55 60
 tac ttc ttc ctc tat aac ttg tcc ttc ata gat ttc tgc tat tcc agt 240
 Tyr Phe Phe Leu Tyr Asn Leu Ser Phe Ile Asp Phe Cys Tyr Ser Ser
 65 70 75
 gtt atc act ccc aaa atg ctg atg agc ttt gtc tta aag aag aac agc 288
 Val Ile Thr Pro Lys Met Leu Met Ser Phe Val Leu Lys Lys Asn Ser
 80 85 90 95
 atc tcc tac gca ggg tgt atg act cag ctc ttc ttc ttt ctt ttc ttt 336
 Ile Ser Tyr Ala Gly Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe
 100 105 110
 gtt gtc tct gag tcc ttc atc ctg tca gca atg gcg tat gac cgc tat 384
 Val Val Ser Glu Ser Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr
 115 120 125
 gtg gcc atc tgt aac cca ctg ttg tac atg gtc acc atg tct ccc cag 432
 Val Ala Ile Cys Asn Pro Leu Leu Tyr Met Val Thr Met Ser Pro Gln
 130 135 140
 gtg tgt ttt ctc ctt ttg ttg ggt gtc tat ggg atg ggg ttt gct ggg 480
 Val Cys Phe Leu Leu Leu Leu Gly Val Tyr Gly Met Gly Phe Ala Gly
 145 150 155
 gcc atg gcc cac aca gcg tgc atg atg ggt gtg acc ttc tgt gcc aat 528
 Ala Met Ala His Thr Ala Cys Met Met Gly Val Thr Phe Cys Ala Asn
 160 165 170 175
 aac ctt gtc aac cac tac atg tgt gac atc ctt ccc ctt ctt gag tgt 576
 Asn Leu Val Asn His Tyr Met Cys Asp Ile Leu Pro Leu Leu Gln Cys
 180 185 190
 gct tgc acc agc acc tat gtg aat gag ctt gta gtg ttt gtt gtt gtg 624
 Ala Cys Thr Ser Thr Tyr Val Asn Glu Leu Val Val Phe Val Val Val

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PCT/BE01/00162

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195          200          205
ggc att gat att ggt gtg ccc aca gtc acc atc ttc att tcc tat gct 672
Gly ile Asp ile Gly Val Pro Thr Val Thr ile Phe ile Ser Tyr Ala
210          215          220

ctc att ctc tcc agc atc ttc cac att gat tcc acg gag ggc agg tcc 720
Leu ile Leu Ser Ser ile Phe His ile Asp Ser Thr Glu Gly Arg Ser
225          230          235

aaa gcc ttc agc acc tgc agc tcc cac ata att gca gtt tct ctg ttc 768
Lys Ala Phe Ser Thr Cys Ser Ser His ile ile Ala Val Ser Leu Phe
240          245          250          255

ttt ggg tca gga gca ttc atg tac ctc aaa ccc ttt tct ctt tta gct 816
Phe Gly Ser Gly Ala Phe Met Tyr Leu Lys Pro Phe Ser Leu Leu Ala
260          265          270

atg aac cag ggc aag gtg tct tcc cta ttc tat acc act gtg gtg ccc 864
Met Asn Gln Gly Lys Val Ser Ser Leu Phe Tyr Thr Thr val val Pro
275          280          285

atg ctc aac cca tta att tat agc ctg agg aat aag gac gtc aaa gtt 912
Met Leu Asn Pro Leu ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val
290          295          300

gct cta aag aaa atc tgg aac aaa aat gca ttc tcc tga 951
Ala Leu Lys Lys ile Leu Asn Lys Asn Ala Phe Ser
305          310          315

<210> 112
<211> 313
<212> PRT
<213> Homo Sapiens

<400> 112
Met Thr Met Ala Ala Glu Asn Ser Ser Phe Val Thr Gln Phe ile Leu
1          5          10          15

Ala Gly Leu Thr Asp Gln Pro Gly Val Gln ile Pro Leu Phe Phe Leu
20          25          30

Phe Leu Gly Phe Tyr Val Val Thr Val Val Gly Asn Leu Gly Leu ile
35          40          45

Thr Leu ile Arg Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe
50          55          60

Leu Tyr Asn Leu Ser Phe ile Asp Phe Cys Tyr Ser Ser Val ile Thr
65          70          75          80

Pro Lys Met Leu Met Ser Phe Val Leu Lys Lys Asn Ser ile Ser Tyr
85          90          95

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PCT/BE01/00162

Ala Gly Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe Val Val Ser
 100 105 110
 Glu Ser Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys Asn Pro Leu Leu Tyr Met Val Thr Met Ser Pro Gln Val Cys Phe
 130 135 140
 Leu Leu Leu Leu Gly Val Tyr Gly Met Gly Phe Ala Gly Ala Met Ala
 145 150 155 160
 His Thr Ala Cys Met Met Gly Val Thr Phe Cys Ala Asn Asn Leu Val
 165 170 175
 Asn His Tyr Met Cys Asp Ile Leu Pro Leu Leu Glu Cys Ala Cys Thr
 180 185 190
 Ser Thr Tyr Val Asn Glu Leu Val Val Phe Val Val Val Gly Ile Asp
 195 200 205
 Ile Gly Val Pro Thr Val Thr Ile Phe Ile Ser Tyr Ala Leu Ile Leu
 210 215 220
 Ser Ser Ile Phe His Ile Asp Ser Thr Glu Gly Arg Ser Lys Ala Phe
 225 230 235 240
 Ser Thr Cys Ser Ser His Ile Ile Ala Val Ser Leu Phe Phe Gly Ser
 245 250 255
 Gly Ala Phe Met Tyr Leu Lys Pro Phe Ser Leu Leu Ala Met Asn Gln
 260 265 270
 Gly Lys Val Ser Ser Leu Phe Tyr Thr Thr Val Val Pro Met Leu Asn
 275 280 285
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Lys
 290 295 300
 Lys Ile Leu Asn Lys Asn Ala Phe Ser
 305 310
 <210> 113
 <211> 945
 <212> DNA
 <213> Homo Sapiens

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<220>
<221> CDS
<222> (1)...(342)
<223>

<400> 113
atg gaa aaa aga aat cta aca gtt gtc agg gaa ttc gtc ctt ctg gga      48
Met Glu Lys Arg Asn Leu Thr Val Val Arg Glu Phe Val Leu Leu Gly
1      5      10      15

ctt cct agc tca gca gag cag cag cac ctc ctg tct gtg ctc ttt ctc      96
Leu Pro Ser Ser Ala Glu Gln Gln His Leu Leu Ser Val Leu Phe Leu
20     25     30

tgt atg tat tta gcc acc acc ttg ggg aac atg ctc atc att gcg acg      144
Cys Met Tyr Leu Ala Thr Thr Leu Gly Asn Met Leu Ile Ile Ala Thr
35     40     45

att ggc ttt gac tct cac ctc cat tcc cct atg tac ttc ttc ctt agt      192
Ile Gly Phe Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu Ser
50     55     60

aac ttg gcc ttt gtt gac atc tgc ttt acg tgg act aca gtc ccc caa      240
Asn Leu Ala Phe Val Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Gln
65     70     75     80

atg gta gtg aat atc ttg act gcc acc aag act atc tct ttt gca gcc      288
Met Val Val Asn Ile Leu Thr Gly Thr Lys Thr Ile Ser Phe Ala Gly
85     90     95

tgc ctc acc cag ctc ttc ttc ttc gtt tct ttt gtg aat atg gac agc      336
Cys Leu Thr Gln Leu Phe Phe Phe Val Ser Phe Val Asn Met Asp Ser
100    105    110

ctc ctt ctg tgt gtg atg gcg tat gat aga tat gtg gcg att tgc cac      384
Leu Leu Leu Cys Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
115    120    125

ccc tta cat tac acc gcc aga atg aac ctg tgc ctt tgt gtc cag cta      432
Pro Leu His Tyr Thr Ala Arg Met Asn Leu Cys Leu Cys Val Gln Leu
130    135    140

gtg gct gga ctg tgg ctt gtt act tac ctc cac gcc ctc ctg cat act      480
Val Ala Gly Leu Trp Leu Val Thr Tyr Leu His Ala Leu Leu His Thr
145    150    155    160

gtc cta ata gca cag ctg tcc ttc tgt gcc tcc aat atc atc cat cat      528
Val Leu Ile Ala Gln Leu Ser Phe Cys Ala Ser Asn Ile Ile His His
165    170    175

ttc ttc tgt gat ctc aat cct ctc ctg cag ctc tct tgc tct gac gtc      576
Phe Phe Cys Asp Leu Asn Pro Leu Leu Gln Leu Ser Cys Ser Asp Val
180    185    190

tcc ttc aat gta atg atc att ttt gca gta gga ggt cta ttg gct ctc      624
Ser Phe Asn Val Met Ile Ile Phe Ala Val Gly Gly Leu Leu Ala Leu
195    200    205

acg ccc ctt gtc tgt atc ctc gta tct tat gga ctt atc ttc tcc act      672

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Thr Pro Leu Val Cys Ile Leu Val Ser Tyr Gly Leu Ile Phe Ser Thr
210                215                220

gtt ctg aag atc acc tct act cag ggc aag cag aga gct gtt tcc acc    720
Val Leu Lys Ile Thr Ser Thr Gln Gly Lys Gln Arg Ala Val Ser Thr
225                230                235                240

tgc agc tgc cac ctg tca gtg gtg gtg ttg ttt tac ggc aca gcc atc    750
Cys Ser Cys His Leu Ser Val Val Val Leu Phe Tyr Gly Thr Ala Ile
245                250                255

gcc gtc tat ttc agc cct tca tcc ccc cat atg cct gag agc gac act    816
Ala Val Tyr Phe Ser Pro Ser Ser Pro His Met Pro Glu Ser Asp Thr
260                265                270

ctg tca acc atc atg tat tca atg gtg gct cag atg ctg aat cct ttc    854
Leu Ser Thr Ile Met Tyr Ser Met Val Ala Pro Met Leu Asn Pro Phe
275                280                285

atc tat acc cta agg aac agg gat atg aag agg gga ctt cag aaa atg    912
Ile Tyr Thr Leu Arg Asn Arg Asp Met Lys Arg Gly Leu Gln Lys Met
290                295                300

ctt ctc aag tgc aca gtc ttt cag cag caa taa    945
Leu Leu Lys Cys Thr Val Phe Gln Gln Gln
305                310

<210> 114
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 114
Met Glu Lys Arg Asn Leu Thr Val Val Arg Glu Phe Val Leu Leu Gly
1          5          10          15

Leu Pro Ser Ser Ala Glu Gln Gln His Leu Leu Ser Val Leu Phe Leu
20         25         30

Cys Met Tyr Leu Ala Thr Thr Leu Gly Asn Met Leu Ile Ile Ala Thr
35         40         45

Ile Gly Phe Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu Ser
50         55         60

Asn Leu Ala Phe Val Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Gln
65         70         75         80

Met Val Val Asn Ile Leu Thr Gly Thr Lys Thr Ile Ser Phe Ala Gly
85         90         95

Cys Leu Thr Gln Leu Phe Phe Phe Val Ser Phe Val Asn Met Asp Ser
100        105        110

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Leu Leu Leu Cys Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125

Pro Leu His Tyr Thr Ala Arg Met Asn Leu Cys Leu Cys Val Gln Leu
 130 135 140

Val Ala Gly Leu Trp Leu Val Thr Tyr Leu His Ala Leu Leu His Thr
 145 150 155 160

Val Leu Ile Ala Gln Leu Ser Phe Cys Ala Ser Asn Ile Ile His His
 165 170 175

Phe Phe Cys Asp Leu Asn Pro Leu Leu Gln Leu Ser Cys Ser Asp Val
 180 185 190

Ser Phe Asn Val Met Ile Ile Phe Ala Val Gly Gly Leu Leu Ala Leu
 195 200 205

Thr Pro Leu Val Cys Ile Leu Val Ser Tyr Gly Leu Ile Phe Ser Thr
 210 215 220

Val Leu Lys Ile Thr Ser Thr Gln Gly Lys Gln Arg Ala Val Ser Thr
 225 230 235 240

Cys Ser Cys His Leu Ser Val Val Val Leu Phe Tyr Gly Thr Ala Ile
 245 250 255

Ala Val Tyr Phe Ser Pro Ser Ser Pro His Met Pro Glu Ser Asp Thr
 260 265 270

Leu Ser Thr Ile Met Tyr Ser Met Val Ala Pro Met Leu Asn Pro Phe
 275 280 285

Ile Tyr Thr Leu Arg Asn Arg Asp Met Lys Arg Gly Leu Gln Lys Met
 290 295 300

Leu Leu Lys Cys Thr Val Phe Gln Gln Gln
 305 310

<210> 115
 <211> 930
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS

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<222> (1) .. (927)
<223>

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<400> 115
atg gca aat ctc aca atc gtg act gaa ttt atc ctt atg ggg ttt tct      48
Met Ala Asn Leu Thr Ile Val Thr Glu Phe Ile Leu Met Gly Phe Ser
1      5      10      15

acc aat aaa aat atg tgc att ttg cat tcg att ctc ttc ttg ttg att      96
Thr Asn Lys Asn Met Cys Ile Leu His Ser Ile Leu Phe Leu Leu Ile
      20      25      30

tat ttg tgt gcc ctg atg ggg aat gtc ctc att atc atg atc aca act      144
Tyr Leu Cys Ala Leu Met Gly Asn Val Leu Ile Ile Met Ile Thr Thr
      35      40      45

ctg gac cat cat ctc cac acc ccc gtg tat ttc ttc ttg aag aat cta      192
Leu Asp His His Leu His Thr Pro Val Tyr Phe Phe Leu Lys Asn Leu
      50      55      60

tct ttc ttg gat ctc tgc ctt att tca gtc acg gct ccc aas tct atc      240
Ser Phe Leu Asp Leu Cys Leu Ile Ser Val Thr Ala Pro Lys Ser Ile
      65      70      75      80

gcc aat tct ttg ata cac aac aac tcc att tca ttc ctt ggc tgt ggt      288
Ala Asn Ser Leu Ile His Asn Asn Ser Ile Ser Phe Leu Gly Cys Val
      85      90      95

tcc cag gtc ttt ttg ttg ctt tct tca gca tct gca gag ctg ctc ctc      336
Ser Gln Val Phe Leu Leu Leu Ser Ser Ala Ser Ala Glu Leu Leu Leu
      100      105      110

ctc acg gtg atg tcc ttt gac cgc tat act gct ata tgt cac cct ctg      384
Leu Thr Val Met Ser Phe Asp Arg Tyr Thr Ala Ile Cys His Pro Leu
      115      120      125

cac tat gat gtc atc atg gac agg agc acc tgt gtc caa aga gcc act      432
His Tyr Asp Val Ile Met Asp Arg Ser Thr Cys Val Gln Arg Ala Thr
      130      135      140

gtg tot tgg ctg tat ggg ggt ctg att gct gtg atg cac aca gct ggc      480
Val Ser Trp Leu Tyr Gly Gly Leu Ile Ala Val Met His Thr Ala Gly
      145      150      155      160

acc ttc tcc tta tcc tac tgt ggg tcc aac atg gtc cat cag ttc ttc      528
Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Met Val His Gln Phe Phe
      165      170      175

tgt gac att ccc cag tta tta gct att tct tgc tca gaa aat tta ata      576
Cys Asp Ile Pro Gln Leu Leu Ala Ile Ser Cys Ser Glu Asn Leu Ile
      180      185      190

aga gaa att gca ctc atc ctt att aat gta gtt ttg gat ttc tgc tgt      624
Arg Glu Ile Ala Leu Ile Leu Ile Asn Val Val Leu Asp Phe Cys Cys
      195      200      205

ttt att gtc atc atc att acc tat gtc cac gtc ttc tct aca gtc aag      672
Phe Ile Val Ile Ile Ile Thr Tyr Val His Val Phe Ser Thr Val Lys
      210      215      220

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aag atc cct tcc aca gaa ggc cag tca aaa gcc tac tct att tgc ctt 720
lys ile pro ser thr glu gly gln ser lys ala tyr ser ile cys leu
225 230 235 240

cca cac ttg ctg gtt gtg tta ttt ctt tcc act gga ttc att gct tat 768
pro his leu leu val val leu phe leu ser thr gly phe ile ala tyr
245 250 255

ctg aag cca gct tca gag tct cct tct att ttg gat gct gta att tct 816
leu lys pro ala ser glu ser pro ser ile leu asp ala val ile ser
260 265 270

gtg ttc tac act atg ctg ccc cca acc ttt aat ccc att ata tac agt 864
val phe tyr thr met leu pro pro thr phe asn pro ile ile tyr ser
275 280 285

ttg aga aac aag gcc ata aag gtg gct ctg ggg atg ttg ata aag gga 912
leu arg asn lys ala ile lys val ala leu gly met leu ile lys gly
290 295 300

aag ctc acc aaa aag taø 930
lys leu thr lys lys
305

<210> 116
<211> 309
<212> PRT
<213> Homo Sapiens

<400> 116

Met Ala Asn Leu Thr Ile Val Thr Glu Phe Ile Leu Met Gly Phe Ser
1 5 10 15

Thr Asn Lys Asn Met Cys Ile Leu His Ser Ile Leu Phe Leu Leu Ile
20 25 30

Tyr Leu Cys Ala Leu Met Gly Asn Val Leu Ile Ile Met Ile Thr Thr
35 40 45

Leu Asp His His Leu His Thr Pro Val Tyr Phe Phe Leu Lys Asn Leu
50 55 60

Ser Phe Leu Asp Leu Cys Leu Ile Ser Val Thr Ala Pro Lys Ser Ile
65 70 75 80

Ala Asn Ser Leu Ile His Asn Asn Ser Ile Ser Phe Leu Gly Cys Val
85 90 95

Ser Gln Val Phe Leu Leu Leu Ser Ser Ala Ser Ala Glu Leu Leu Leu
100 105 110

Leu Thr Val Met Ser Phe Asp Arg Tyr Thr Ala Ile Cys His Pro Leu

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115          120          125
His Tyr Asp Val Ile Met Asp Arg Ser Thr Cys Val Gln Arg Ala Thr
130          135          140
Val Ser Trp Leu Tyr Gly Gly Leu Ile Ala Val Met His Thr Ala Gly
145          150          155          160
Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Met Val His Gln Phe Phe
165          170          175
Cys Asp Ile Pro Gln Leu Leu Ala Ile Ser Cys Ser Glu Asn Leu Ile
180          185          190
Arg Glu Ile Ala Leu Ile Leu Ile Asn Val Val Leu Asp Phe Cys Cys
195          200          205
Phe Ile Val Ile Ile Ile Thr Tyr Val His Val Phe Ser Thr Val Lys
210          215          220
Lys Ile Pro Ser Thr Glu Gly Gln Ser Lys Ala Tyr Ser Ile Cys Leu
225          230          235          240
Pro His Leu Leu Val Val Leu Phe Leu Ser Thr Gly Phe Ile Ala Tyr
245          250          255
Leu Lys Pro Ala Ser Glu Ser Pro Ser Ile Leu Asp Ala Val Ile Ser
260          265          270
Val Phe Tyr Thr Met Leu Pro Pro Thr Phe Asn Pro Ile Ile Tyr Ser
275          280          285
Leu Arg Asn Lys Ala Ile Lys Val Ala Leu Gly Met Leu Ile Lys Gly
290          295          300
Lys Leu Thr Lys Lys
305

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<210> 117
<211> 966
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> {1}..{963}
<223>

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PCT/BE01/00162

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<400> 117
atg ccc ata ctt atg gct ata gga aac tgg aca gaa ata agt gaa ttt      48
Met Pro Ile Leu Met Ala Ile Gly Asn Trp Thr Glu Ile Ser Glu Phe
1      5      10      15
atc ctc atg agc ttc tct tcc cta cct act gaa ata cag tca ttg ctc      96
Ile Leu Met Ser Phe Ser Ser Leu Pro Thr Glu Ile Gln Ser Leu Leu
20      25      30
ttc ctg aca ttt cta act atc tat ttg gtt aot ctg aag gga aac agc      144
Phe Leu Thr Phe Leu Thr Ile Tyr Leu Val Thr Leu Lys Gly Asn Ser
35      40      45
ctc atc att ctg gtt acc cta gct gac ccc atg cta cac agc ccc atg      192
Leu Ile Ile Leu Val Thr Leu Ala Asp Pro Met Leu His Ser Pro Met
50      55      60
tac ttc ttc ctc aga aac tta tct ttc ctg gag att ggc ttc aac cta      240
Tyr Phe Phe Leu Arg Asn Leu Ser Phe Leu Glu Ile Gly Phe Asn Leu
65      70      75      80
gtc att ctg ccc aaa atg ctg ggg acc ctg ctt gcc cag gac aca acc      288
Val Ile Val Pro Lys Met Leu Gly Thr Leu Leu Ala Gln Asp Thr Thr
85      90      95
atc tcc ttc ctt ggc tgt gcc act cag atg tat ttc ttc ttc ttc ttt      336
Ile Ser Phe Leu Gly Cys Ala Thr Gln Met Tyr Phe Phe Phe Phe Phe
100      105      110
ggg gta gct gaa tgc ttc ctc ctg gct acc atg gca tat gac cgc tat      384
Gly Val Ala Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr
115      120      125
gtg gcc atc tgc agt ccc ttg cac tac cca gtc atc atg aac caa agg      432
Val Ala Ile Cys Ser Pro Leu His Tyr Pro Val Ile Met Asn Gln Arg
130      135      140
aca cgg gcc aaa ctg gct gct gct tcc tgg ttc cca ggc ttt cct gta      480
Thr Arg Ala Lys Leu Ala Ala Ala Ser Trp Phe Pro Gly Phe Pro Val
145      150      155      160
gct act gtg cag acc aca tgg ctc ttc agt ttt cca ttc tgt ggc acc      528
Ala Thr Val Gln Thr Thr Trp Leu Phe Ser Phe Pro Phe Cys Gly Thr
165      170      175
aac aag gtg aac cac ttc ttc tgt gac agc ccg cct gtg ctg aag ctg      576
Asn Lys Val Asn His Phe Phe Cys Asp Ser Pro Pro Val Leu Lys Leu
180      185      190
gtc tgt gca gac aca gca ctg ttt gag atc tac gcc atc gtc gga acc      624
Val Cys Ala Asp Thr Ala Leu Phe Glu Ile Tyr Ala Ile Val Gly Thr
195      200      205
att ctg gtg gtc atg atc ccc tgc ttg ctg atc ttg tgt tcc tat act      672
Ile Leu Val Val Met Ile Pro Cys Leu Leu Ile Leu Cys Ser Tyr Thr
210      215      220
cgc att gct gct gct atc ctc aag atc cca tca gct aaa ggg aag cat      720
Arg Ile Ala Ala Ala Ile Leu Lys Ile Pro Ser Ala Lys Gly Lys His
225      230      235      240

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PCT/BE01/00162

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aaa gcc ttc tct acg tgc tcc tca cac ctc ctt gtt gtc tct ctt ttc      758
Lys Ala Phe Ser Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe
                245                250                255

tat ata tct tct agc ctc acc tac ttc tgg cct aaa tca aat aat tct      816
Tyr Ile Ser Ser Ser Leu Thr Tyr Phe Trp Pro Lys Ser Asn Asn Ser
                260                265                270

cct gag agc aag aag ttg tta tca tta tcc tac act gtt gtg act ccc      864
Pro Glu Ser Lys Lys Leu Leu Ser Leu Ser Tyr Thr Val Val Thr Pro
                275                280                285

atg ttg aac ccc att atc tac agc ttg aga aat agc gag gtg aag aat      912
Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Ser Glu Val Lys Asn
                290                295                300

gcc ctc agc agg acc ttc cac aag gtc cta gcc ctc aga aac tgt atc      960
Ala Leu Ser Arg Thr Phe His Lys Val Leu Ala Leu Arg Asn Cys Ile
305                310                315                320

cca tag
Pro

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<210> 118
<211> 321
<212> PRT
<213> Homo Sapiens

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<400> 118

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Met Pro Ile Leu Met Ala Ile Gly Asn Trp Thr Glu Ile Ser Glu Phe
1          5          10          15

Ile Leu Met Ser Phe Ser Ser Leu Pro Thr Glu Ile Gln Ser Leu Leu
20          25          30

Phe Leu Thr Phe Leu Thr Ile Tyr Leu Val Thr Leu Lys Gly Asn Ser
35          40          45

Leu Ile Ile Leu Val Thr Leu Ala Asp Pro Met Leu His Ser Pro Met
50          55          60

Tyr Phe Phe Leu Arg Asn Leu Ser Phe Leu Glu Ile Gly Phe Asn Leu
65          70          75          80

Val Ile Val Pro Lys Met Leu Gly Thr Leu Leu Ala Gln Asp Thr Thr
85          90          95

Ile Ser Phe Leu Gly Cys Ala Thr Gln Met Tyr Phe Phe Phe Phe Phe
100         105         110

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Gly Val Ala Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr
 115 120 125
 Val Ala Ile Cys Ser Pro Leu His Tyr Pro Val Ile Met Asn Gln Arg
 130 135 140
 Thr Arg Ala Lys Leu Ala Ala Ala Ser Trp Phe Pro Gly Phe Pro Val
 145 150 155 160
 Ala Thr Val Gln Thr Thr Trp Leu Phe Ser Phe Pro Phe Cys Gly Thr
 165 170 175
 Asn Lys Val Asn His Phe Phe Cys Asp Ser Pro Pro Val Leu Lys Leu
 180 185 190
 Val Cys Ala Asp Thr Ala Leu Phe Glu Ile Tyr Ala Ile Val Gly Thr
 195 200 205
 Ile Leu Val Val Met Ile Pro Cys Leu Leu Ile Leu Cys Ser Tyr Thr
 210 215 220
 Arg Ile Ala Ala Ala Ile Leu Lys Ile Pro Ser Ala Lys Gly Lys His
 225 230 235 240
 Lys Ala Phe Ser Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe
 245 250 255
 Tyr Ile Ser Ser Ser Leu Thr Tyr Phe Trp Pro Lys Ser Asn Asn Ser
 260 265 270
 Pro Glu Ser Lys Lys Leu Leu Ser Leu Ser Tyr Thr Val Val Thr Pro
 275 280 285
 Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Ser Glu Val Lys Asn
 290 295 300
 Ala Leu Ser Arg Thr Phe His Lys Val Leu Ala Leu Arg Asn Cys Ile
 305 310 315 320

Pro

<210> 119
 <211> 933
 <212> DNA
 <213> Homo Sapiens

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<220>
<221> CDS
<222> (1)..(930)
<223>

<400> 119
caa act atg aga cag ata aat cag aca caa gbg aca gaa ttc ctc ctt      48
Gln Thr Met Arg Gln Ile Asn Gln Thr Gln Val Thr Glu Phe Leu Leu
1      5      10      15

ctg gga ctc tct gat ggg cca cac acc gag cag ctg cta ttt atc gta      96
Leu Gly Leu Ser Asp Gly Pro His Thr Glu Gln Leu Leu Phe Ile Val
20     25     30

tta ttg ggt gtc tac ctg gtc act gtc ctt gga aat ctg ctt cta atc      144
Leu Leu Gly Val Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Leu Ile
35     40     45

tcc ctt gtt cat gtt gac tcc caa ctt cac aca ccc atg tat ttt ttt      192
Ser Leu Val His Val Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe
50     55     60

ctc tgc aac ttg tct ctg gct gac ctc tgt ttc tct acc aac ata gtt      240
Leu Cys Asn Leu Ser Leu Ala Asp Leu Cys Phe Ser Thr Asn Ile Val
65     70     75

cct cag gca cta gtc cac ctg ctt tcc aga aag aag gtc att gca ttc      288
Pro Gln Ala Leu Val His Leu Leu Ser Arg Lys Lys Val Ile Ala Phe
85     90     95

aca ctt tgc gca gct cga ctt ctc ttt ttc ctc att ttt ggg tgt acc      336
Thr Leu Cys Ala Ala Arg Leu Leu Phe Phe Leu Ile Phe Gly Cys Thr
100    105    110

cag tgc gcc ctt ctt gca gbg atg tcc tat gat cgc tat gtt gca atc      384
Gln Cys Ala Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile
115    120    125

tgc aat cct ctg cgt tac cct aac atc atg acc tgg aaa gbg tgt gtc      432
Cys Asn Pro Leu Arg Tyr Pro Asn Ile Met Thr Thr Lys Val Cys Val
130    135    140

cag ctg gca aca gga tca tgg acc agt ggc att ctg gbg tct gbg gta      480
Gln Leu Ala Thr Gly Ser Trp Thr Ser Gly Ile Leu Val Ser Val Val
145    150    155    160

gac acc acc ttc ata ctg agg cta ccc tac cga ggc agt aac agc att      528
Asp Thr Thr Phe Ile Leu Arg Leu Pro Tyr Arg Gly Ser Asn Ser Ile
165    170    175

gct cat ttc ttt tgt gag gcc cct gca cta ttg atc tta gca tcc aca      576
Ala His Phe Phe Cys Glu Ala Pro Ala Leu Leu Ile Leu Ala Ser Thr
180    185    190

gac acc cat gca tca gag atg gcc att ttt ctt atg ggg gtt gbg att      624
Asp Thr His Ala Ser Glu Met Ala Ile Phe Leu Met Gly Val Val Ile
195    200    205

ctc ctc ata cct gtt ttt ctg att ctg gta tcc tat ggc cgt atc ata      672
Leu Leu Ile Pro Val Phe Leu Ile Leu Val Ser Tyr Gly Arg Ile Ile

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WO 02/24726

PCT/BE01/00162

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      210      215      220
gta act gtg gtc aag atg aag tca act gtg ggg agt ctc aag gca ttt      720
Val Thr Val Val Lys Met Lys Ser Thr Val Gly Ser Leu Lys Ala Phe
225      230      235      240
tot acc tgt ggc tcc cac ctc atg gtg gtc ata ctt ttt tat gga tca      768
Ser Thr Cys Gly Ser His Leu Met Val Val Ile Leu Phe Tyr Gly Ser
245      250      255
gca att atc act tac atg aca ccc aag tct tcc aaa cag cag gaa aaa      816
Ala Ile Ile Thr Tyr Met Thr Pro Lys Ser Ser Lys Gln Gln Glu Lys
260      265      270
tcg gtg tct gtt ttc tat gca ata gtg act ccc atg ctt aat ccc ctc      864
Ser Val Ser Val Phe Tyr Ala Ile Val Thr Pro Met Leu Asn Pro Leu
275      280      285
atc tat agc ctg aga aac aag gat gtg aag gca gct ctg agg aaa gta      912
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Leu Arg Lys Val
290      295      300
gcc aca agg aat ttc cca tga      933
Ala Thr Arg Asn Phe Pro
305      310

<210> 120
<211> 310
<212> PPT
<213> Homo Sapiens

<400> 120
Gln Thr Met Arg Gln Ile Asn Gln Thr Gln Val Thr Glu Phe Leu Leu
1      5      10      15
Leu Gly Leu Ser Asp Gly Pro His Thr Glu Gln Leu Leu Phe Ile Val
20      25      30
Leu Leu Gly Val Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Leu Ile
35      40      45
Ser Leu Val His Val Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe
50      55      60
Leu Cys Asn Leu Ser Leu Ala Asp Leu Cys Phe Ser Thr Asn Ile Val
65      70      75      80
Pro Gln Ala Leu Val His Leu Leu Ser Arg Lys Lys Val Ile Ala Phe
85      90      95
Thr Leu Cys Ala Ala Arg Leu Leu Phe Phe Leu Ile Phe Gly Cys Thr
100      105      110

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PCT/BE01/00162

Gln Cys Ala Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys Asn Pro Leu Arg Tyr Pro Asn Ile Met Thr Trp Lys Val Cys Val
 130 135 140
 Gln Leu Ala Thr Gly Ser Trp Thr Ser Gly Ile Leu Val Ser Val Val
 145 150 155 160
 Asp Thr Thr Phe Ile Leu Arg Leu Pro Tyr Arg Gly Ser Asn Ser Ile
 165 170 175
 Ala His Phe Phe Cys Glu Ala Pro Ala Leu Leu Ile Leu Ala Ser Thr
 180 185 190
 Asp Thr His Ala Ser Glu Met Ala Ile Phe Leu Met Gly Val Val Ile
 195 200 205
 Leu Leu Ile Pro Val Phe Leu Ile Leu Val Ser Tyr Gly Arg Ile Ile
 210 215 220
 Val Thr Val Val Lys Met Lys Ser Thr Val Gly Ser Leu Lys Ala Phe
 225 230 235 240
 Ser Thr Cys Gly Ser His Leu Met Val Val Ile Leu Phe Tyr Gly Ser
 245 250 255
 Ala Ile Ile Thr Tyr Met Thr Pro Lys Ser Ser Lys Gln Gln Glu Lys
 260 265 270
 Ser Val Ser Val Phe Tyr Ala Ile Val Thr Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Leu Arg Lys Val
 290 295 300
 Ala Thr Arg Asn Phe Pro
 305 310
 <210> 121
 <211> 951
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(948)

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<223>

<400> 131

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atg gag ctc tgg aac ttc acc ttg gga agt ggc ttc att ttg gtg ggg      48
Met Glu Leu Trp Asn Phe Thr Leu Gly Ser Gly Phe Ile Leu Val Gly
1      5      10      15

att ctg aat gac agt ggg tct cct gaa ctg ctc tgt gct aca att aca      96
Ile Leu Asn Asp Ser Gly Ser Pro Glu Leu Leu Cys Ala Thr Ile Thr
20     25     30

atc cta tac ttg ttg gcc ctg atc agc aat ggc cta ctg ctc ctg gct      144
Ile Leu Tyr Leu Leu Ala Leu Ile Ser Asn Gly Leu Leu Leu Leu Ala
35     40     45

atc acc atg gaa gcc cgg ctc cac atg ccc atg tgc ctc ctg ctt ggg      192
Ile Thr Met Glu Ala Arg Leu His Met Pro Met Tyr Leu Leu Leu Gly
50     55     60

cag ctc tct ctc atg gac ctc ctg ttc aca tct gtt gtc act ccc aag      240
Gln Leu Ser Leu Met Asp Leu Leu Phe Thr Ser Val Val Thr Pro Lys
65     70     75     80

gcc ctt gcg gac ttt ctg cgc aga gaa aac acc atc tcc ttt gga ggc      288
Ala Leu Ala Asp Phe Ileu Arg Arg Glu Asn Thr Ile Ser Phe Gly Gly
85     90     95

tgt gcc ctt cag atg ttc ctg gca ctg aca atg ggt ggt gct gag gac      336
Cys Ala Leu Gln Met Phe Leu Ala Leu Thr Met Gly Gly Ala Glu Asp
100    105    110

ctc cta ctg gcc ttc atg gcc tat gac agg tat gtg gcc att tgt cat      384
Leu Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
115    120    125

cct ctg aca tac atg acc ctc atg agc tca aga gcc tgc tgg ctc atg      432
Pro Leu Thr Tyr Met Thr Leu Met Ser Ser Arg Ala Cys Trp Leu Met
130    135    140

gtg gcc acg tcc tgg atc ctg gca tcc cta agt gcc cta ata tat acc      480
Val Ala Thr Ser Trp Ile Leu Ala Ser Leu Ser Ala Leu Ile Tyr Thr
145    150    155    160

gtg tat acc atg cac tat ccc ttc tgc agg gcc cag gag atc agg cat      528
Val Tyr Thr Met His Tyr Pro Phe Cys Arg Ala Gln Glu Ile Arg His
165    170    175

ctt ctc tgt gag atc cca cac ttg ctg aag gtg gcc tgt gct gat acc      576
Leu Leu Cys Glu Ile Pro His Leu Leu Lys Val Ala Cys Ala Asp Thr
180    185    190

tcc aga tat gag ctc atg gta tat gtg atg ggt gtg acc ttc ctg att      624
Ser Arg Tyr Glu Leu Met Val Tyr Val Met Gly Val Thr Phe Leu Ile
195    200    205

ccc tct ctt gct gct ata ctg gcc tcc tat aca caa att cta ctc act      672
Pro Ser Leu Ala Ala Ile Leu Ala Ser Tyr Thr Gln Ile Leu Leu Thr
210    215    220

gtg ctc cat atg cca tca aat gag ggg agg aag aaa gcc ctt gtc acc      720

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Val Leu His Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr
225                230                235                240

tgc tct tcc cac ctg act gtg gtt ggg atg ttc tat gga gct gcc aca    768
Cys Ser Ser His Leu Thr Val Val Gly Met Phe Tyr Gly Ala Ala Thr
                245                250                255

ttc atg tat gtc ttg ccc agt tcc ttc cac agc acc aga caa gac aac    816
Phe Met Tyr Val Leu Pro Ser Ser Phe His Ser Thr Arg Gln Asp Asn
                260                265                270

atc atc tct gtt ttc tac aca att gtc act cca gcc ctg aat cca etc    864
Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu
                275                280                285

atc tac agc ctg agg aat aag gag gtc atg cgg gcc ttg agg agg gtc    912
Ile Tyr Ser Leu Arg Asn Lys Glu Val Met Arg Ala Leu Arg Arg Val
                290                295                300

ctg gga aaa tac atg ctg cca gca cac tcc acg ctc tag                951
Leu Gly Lys Tyr Met Leu Pro Ala His Ser Thr Leu
305                310                315

<210> 122
<211> 316
<212> PRT
<213> Homo Sapiens

<400> 122
Met Glu Leu Trp Asn Phe Thr Leu Gly Ser Gly Phe Ile Leu Val Gly
1      5      10      15

Ile Leu Asn Asp Ser Gly Ser Pro Glu Leu Leu Cys Ala Thr Ile Thr
20     25     30

Ile Leu Tyr Leu Leu Ala Leu Ile Ser Asn Gly Leu Leu Leu Ala
35     40     45

Ile Thr Met Glu Ala Arg Leu His Met Pro Met Tyr Leu Leu Leu Gly
50     55     60

Gln Leu Ser Leu Met Asp Leu Leu Phe Thr Ser Val Val Thr Pro Lys
65     70     75     80

Ala Leu Ala Asp Phe Leu Arg Arg Glu Asn Thr Ile Ser Phe Gly Gly
85     90     95

Cys Ala Leu Gln Met Phe Leu Ala Leu Thr Met Gly Gly Ala Glu Asp
100    105    110

Leu Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
115    120    125

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Pro Leu Thr Tyr Met Thr Leu Met Ser Ser Arg Ala Cys Trp Leu Met
 130 135 140
 Val Ala Thr Ser Trp Ile Leu Ala Ser Leu Ser Ala Leu Ile Tyr Thr
 145 150 155 160
 Val Tyr Thr Met His Tyr Pro Phe Cys Arg Ala Gln Glu Ile Arg His
 165 170 175
 Leu Leu Cys Glu Ile Pro His Leu Leu Lys Val Ala Cys Ala Asp Thr
 180 185 190
 Ser Arg Tyr Glu Leu Met Val Tyr Val Met Gly Val Thr Phe Leu Ile
 195 200 205
 Pro Ser Leu Ala Ala Ile Leu Ala Ser Tyr Thr Gln Ile Leu Leu Thr
 210 215 220
 Val Leu His Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr
 225 230 235 240
 Cys Ser Ser His Leu Thr Val Val Gly Met Phe Tyr Gly Ala Ala Thr
 245 250 255
 Phe Met Tyr Val Leu Pro Ser Ser Phe His Ser Thr Arg Gln Asp Asn
 260 265 270
 Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Met Arg Ala Leu Arg Arg Val
 290 295 300
 Leu Gly Lys Tyr Met Leu Pro Ala His Ser Thr Leu
 305 310 315

<210> 123
 <211> 897
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
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 <223>

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<400> 123
atg aga aat cac aca atg gtg act gaa ttc atc ctt ctg gga atc cct      48
Met Arg Asn His Thr Met Val Thr Glu Phe Ile Leu Leu Gly Ile Pro
1      5      10      15

gag aca gag ggc cta gag aca gcc ctt tta ttc ctg ttc tcc tca ttt      96
Glu Thr Glu Gly Leu Glu Thr Ala Leu Leu Phe Leu Phe Ser Ser Phe
20      25      30

tat tta tgc acc ctc ttg gga aac gtg ctt atc ctt aca gct atc atc      144
Tyr Leu Cys Thr Leu Leu Gly Asn Val Leu Ile Leu Thr Ala Ile Ile
35      40      45

tcc tcc act cga ctt cac act cct atg tat ttt ttc ttg gga aac ctc      192
Ser Ser Thr Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Leu
50      55      60

tcc atc ttt gac ctg ggt ttc tct tca acg act gtt ccc aag atg ttg      240
Ser Ile Phe Asp Leu Gly Phe Ser Ser Thr Thr Val Pro Lys Met Leu
65      70      75      80

ttc tac ctt tgc ggg aac agc cat gct atc tgc tat gca gcc tgc gtg      288
Phe Tyr Leu Ser Gly Asn Ser His Ala Ile Ser Tyr Ala Gly Cys Val
85      90      95

tcc cag ctt ttc ttc tac cat ttc cta gcc tgt act gag tgt ttc ctc      336
Ser Gln Leu Phe Phe Tyr His Phe Leu Gly Cys Thr Glu Cys Phe Leu
100      105      110

tac aca gtg atg gcc tgt gac cgc ttt gtt gcc ata tgt ttt cct ttg      384
Tyr Thr Val Met Ala Cys Asp Arg Phe Val Ala Ile Cys Phe Pro Leu
115      120      125

aga tac acg gtc atc atg aac cao agg gtg tgc ttt atg ttg gcc acg      432
Arg Tyr Thr Val Ile Met Asn His Arg Val Cys Phe Met Leu Ala Thr
130      135      140

ggg acc tgg atg att ggc tgt gtc cat gcc atg atc cta act ccc ctc      480
Gly Thr Trp Met Ile Gly Cys Val His Ala Met Ile Leu Thr Pro Leu
145      150      155      160

acc ttc cag tta cct tac tgt ggc cct aac aag gtg gcc tat taa ttc      528
Thr Phe Gln Leu Pro Tyr Cys Gly Pro Asn Lys Val Gly Tyr Tyr Phe
165      170      175

tgt gat att cct gca gtg tta cct cta gcc tgt aag gac aca tcc tta      576
Cys Asp Ile Pro Ala Val Leu Pro Leu Ala Cys Lys Asp Thr Ser Leu
180      185      190

gcc cag agg gta ggt ttt aca aat gtt ggt ctt ttg tct ctc att tgc      624
Ala Gln Arg Val Gly Phe Thr Asn Val Gly Leu Leu Ser Leu Ile Cys
195      200      205

ttt ttt ctc atc ctt gtt tcc tat act tgc att ggg att tcc ata tca      672
Phe Phe Leu Ile Leu Val Ser Tyr Thr Cys Ile Gly Ile Ser Ile Ser
210      215      220

aaa atc cgc tca gca gag gcc agg cag cgg gcc ttc tcc acc tgc agc      720
Lys Ile Arg Ser Ala Glu Gly Arg Gln Arg Ala Phe Ser Thr Cys Ser
225      230      235      240

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gct cac ctc act gca atc ctt tgt gct tat ggg cca gtc atc gtt atc      768
Ala His Leu Thr Ala Ile Leu Cys Ala Tyr Gly Pro Val Ile Val Ile
      245              250              255

tat cta caa ccc aat ccc agt gcc ttg ctt ggt tcc ata att cag ata      816
Tyr Leu Gln Pro Asn Pro Ser Ala Leu Leu Gly Ser Ile Ile Gln Ile
      260              265              270

ttg aat aat ctg gta acc cca atg ttg aat cca cta atc tat agc ctt      864
Leu Asn Asn Leu Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu
      275              280              285

agg aat aag gat gta aaa tca gat cag ccc tga      897
Arg Asn Lys Asp Val Lys Ser Asp Gln Pro
      290              295

<210> 124
<211> 298
<212> PPT
<213> Homo Sapiens

<400> 124

Met Arg Asn His Thr Met Val Thr Glu Phe Ile Leu Leu Gly Ile Pro
1      5      10      15

Glu Thr Glu Gly Leu Glu Thr Ala Leu Leu Phe Leu Phe Ser Ser Phe
20      25      30

Tyr Leu Cys Thr Leu Leu Gly Asn Val Leu Ile Leu Thr Ala Ile Ile
35      40      45

Ser Ser Thr Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Leu
50      55      60

Ser Ile Phe Asp Leu Gly Phe Ser Ser Thr Thr Val Pro Lys Met Leu
65      70      75      80

Phe Tyr Leu Ser Gly Asn Ser His Ala Ile Ser Tyr Ala Gly Cys Val
85      90      95

Ser Gln Leu Phe Phe Tyr His Phe Leu Gly Cys Thr Glu Cys Phe Leu
100     105     110

Tyr Thr Val Met Ala Cys Asp Arg Phe Val Ala Ile Cys Phe Pro Leu
115     120     125

Arg Tyr Thr Val Ile Met Asn His Arg Val Cys Phe Met Leu Ala Thr
130     135     140

Gly Thr Trp Met Ile Gly Cys Val His Ala Met Ile Leu Thr Pro Leu

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35	40	45	
tct cag ctc cat cat cct atg tat ttc ttt ctg agc cac ttg gct ttt	192		
Ser Gln Leu His His Pro Met Tyr Phe Phe Leu Ser His Leu Ala Phe			
50 55 60			
gct gac atg gcc tat tca tct tct gtc aca ccc aac atg ctt gta aac	240		
Ala Asp Met Ala Tyr Ser Ser Ser Val Thr Pro Asn Met Leu Val Asn			
65 70 75 80			
ttc ctg gtc gag aga aat aca gtc tcc tac ctt gga tgt gcc atc cag	288		
Phe Leu Val Glu Arg Asn Thr Val Ser Tyr Leu Gly Cys Ala Ile Gln			
85 90 95			
ctt ggt tca gcg gct ttc ttt gca aca gtc gaa tgc gtc ctt ctg gct	336		
Leu Gly Ser Ala Ala Phe Phe Ala Thr Val Glu Cys Val Leu Leu Ala			
100 105 110			
gcc atg gcc tat gac cgc ttt gtc gca att tgc agt cca ctg ctt tat	384		
Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Ser Pro Leu Leu Tyr			
115 120 125			
tca acc aaa atg tcc aca caa gtc agt gtc cag cta ctc tta gta gtt	432		
Ser Thr Lys Met Ser Thr Gln Val Ser Val Gln Leu Leu Leu Val Val			
130 135 140			
tac ata gct ggt ttt ctc att gct gtc tcc tat act act tcc ttc tat	480		
Tyr Ile Ala Gly Phe Leu Ile Ala Val Ser Tyr Thr Thr Ser Phe Tyr			
145 150 155 160			
ttt tta ctc ttc tgt gga cca aat caa gtc aat cat ttt ttc tgt gat	528		
Phe Leu Leu Phe Cys Gly Pro Asn Gln Val Asn His Phe Phe Cys Asp			
165 170 175			
ttc gct ccc tta ctt gaa ctc tcc tgt tct gat atc agt gtc tcc aca	576		
Phe Ala Pro Leu Leu Glu Leu Ser Cys Ser Asp Ile Ser Val Ser Thr			
180 185 190			
gtt gtt ctc tca ttt tct tct gga tcc atc att gtg gtc act gtg tgt	624		
Val Val Leu Ser Phe Ser Ser Gly Ser Ile Ile Val Val Thr Val Cys			
195 200 205			
gtc ata gcc gtc tgc tac atc tat atc ctc atc acc atc ctg aag atg	672		
Val Ile Ala Val Cys Tyr Ile Tyr Ile Leu Ile Thr Ile Leu Lys Met			
210 215 220			
cgc tcc act gag ggg cac cac aag gcc ttc tcc acc tgc act tcc cac	720		
Arg Ser Thr Glu Gly His His Lys Ala Phe Ser Thr Cys Thr His			
225 230 235 240			
ctc act gtg gtt acc ctg ttc tat ggg acc att acc ttc att tat gtg	768		
Leu Thr Val Val Thr Leu Phe Tyr Gly Thr Ile Thr Phe Ile Tyr Val			
245 250 255			
atg ccc aat ttt agc tac tca act gac cag aac aag gtg gtg tct gtg	816		
Met Pro Asn Phe Ser Tyr Ser Thr Asp Gln Asn Lys Val Val Ser Val			
260 265 270			
ttg tac aca gtg gtg att ccc atg ttg aac ccc ctg atc tac agc ctc	864		
Leu Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu			
275 280 285			

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agg aac aag gag att aag ggg gct ctg aag aga gag ctt gtt aga aaa 912
 Arg Asn Lys Glu Ile Lys Gly Ala Leu Lys Arg Glu Leu Val Arg Lys
 290 295 300

ata ctt tct cat gat gct tgt tat ttt agt aga act tca aat aat gat 960
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 305 310 315 320

att aca tag 969
 Ile Thr

<210> 126

<211> 322

<212> PRT

<213> Homo Sapiens

<400> 126

Met Asn Ser Leu Lys Asp Gly Asn His Thr Ala Leu Thr Gly Phe Ile
 1 5 10 15

Leu Leu Gly Leu Thr Asp Asp Pro Ile Leu Arg Val Ile Leu Phe Met
 20 25 30

Ile Ile Leu Ser Gly Asn Leu Ser Ile Ile Ile Leu Ile Arg Ile Ser
 35 40 45

Ser Gln Leu His His Pro Met Tyr Phe Phe Leu Ser His Leu Ala Phe
 50 55 60

Ala Asp Met Ala Tyr Ser Ser Ser Val Thr Pro Asn Met Leu Val Asn
 65 70 75 80

Phe Leu Val Glu Arg Asn Thr Val Ser Tyr Leu Gly Cys Ala Ile Gln
 85 90 95

Leu Gly Ser Ala Ala Phe Phe Ala Thr Val Glu Cys Val Leu Leu Ala
 100 105 110

Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Ser Pro Leu Leu Tyr
 115 120 125

Ser Thr Lys Met Ser Thr Gln Val Ser Val Gln Leu Leu Val Val
 130 135 140

Tyr Ile Ala Gly Phe Leu Ile Ala Val Ser Tyr Thr Thr Ser Phe Tyr
 145 150 155 160

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Phe Leu Leu Phe Cys Gly Pro Asn Gln Val Asn His Phe Phe Cys Asp
 165 170 175
 Phe Ala Pro Leu Leu Glu Leu Ser Cys Ser Asp Ile Ser Val Ser Thr
 180 185 190
 Val Val Leu Ser Phe Ser Ser Gly Ser Ile Ile Val Val Thr Val Cys
 195 200 205
 Val Ile Ala Val Cys Tyr Ile Tyr Ile Leu Ile Thr Ile Leu Lys Met
 210 215 220
 Arg Ser Thr Glu Gly His His Lys Ala Phe Ser Thr Cys Thr Ser His
 225 230 235 240
 Leu Thr Val Val Thr Leu Phe Tyr Gly Thr Ile Thr Phe Ile Tyr Val
 245 250 255
 Met Pro Asn Phe Ser Tyr Ser Thr Asp Gln Asn Lys Val Val Ser Val
 260 265 270
 Leu Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu
 275 280 285
 Arg Asn Lys Glu Ile Lys Gly Ala Leu Lys Arg Glu Leu Val Arg Lys
 290 295 300
 Ile Leu Ser His Asp Ala Cys Tyr Phe Ser Arg Thr Ser Asn Asn Asp
 305 310 315 320

Ile Thr

<210> 127
 <211> 945
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(942)
 <223>

<400> 127
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 Met Glu Asn Asn Thr Glu Val Ser Glu Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 aat ggc cca gaa cta cag gtt ccc ctg ttt atc atg ttt acc ctg atc 96

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Asn Ala Pro Glu Leu Gln Val Pro Leu Phe Ile Met Phe Thr Leu Ile
      20              25              30
tac ctc atc act ctg act ggg aac ctg ggg atg atc ata tta atc ctg   144
Tyr Leu Ile Thr Leu Thr Gly Asn Leu Gly Met Ile Ile Leu Ile Leu
      35              40              45
ctg gac tct cat ctc cac act ccc atg tac ttt ttt ctc agt aac ctg   192
Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
      50              55              60
tct ctt gca ggc att ggt tac tcc tca gct gtc act cca aag gtt tta   240
Ser Leu Ala Gly Ile Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Leu
      65              70              75              80
act ggg ttg ctt ata gaa gac aaa gcc atc tcc tac agt gcc tgt gct   288
Thr Gly Leu Leu Ile Glu Asp Lys Ala Ile Ser Tyr Ser Ala Cys Ala
      85              90              95
gct cag atg ttc ttt tgt gca gtc ttt gcc act gtg gaa aat tac ctc   336
Ala Gln Met Phe Phe Cys Ala Val Phe Ala Thr Val Glu Asn Tyr Leu
      100             105             110
ttg tcc tca atg gcc tat gac cgc tac gca gca gtg tgt aac ccc cta   384
Leu Ser Met Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Asn Pro Leu
      115             120             125
cat tat acc acc acc atg aca aca cgt gtg tgt gct tgt ctg gct ata   432
His Tyr Thr Thr Thr Met Thr Arg Val Cys Ala Cys Leu Ala Ile
      130             135             140
ggc tgt tat gtc att ggt btt ctg aat gct tct atc caa att gga gat   480
Gly Cys Tyr Val Ile Gly Phe Leu Asn Ala Ser Ile Gln Ile Gly Asp
      145             150             155             160
aca ttt cgc ctc tct ttc tgc atg tcc aat gtg att cat cac ttt ttc   528
Thr Phe Arg Leu Ser Phe Cys Met Ser Asn Val Ile His His Phe Phe
      165             170             175
tgt gac aaa cca gca gtc att act ctg acc tgc tct gag aaa cac att   576
Cys Asp Lys Pro Ala Val Ile Thr Leu Thr Cys Ser Glu Lys His Ile
      180             185             190
agt gag ttg att ctt gtt ctt ata tca agt ttt aat gtc ttt ttt gca   624
Ser Glu Leu Ile Leu Val Leu Ile Ser Ser Phe Asn Val Phe Phe Ala
      195             200             205
ctt ctt gtt acc ttg att tcc tat ctg ttc ata ttg atc acc att ctt   672
Leu Leu Val Thr Leu Ile Ser Tyr Leu Phe Ile Leu Ile Thr Ile Leu
      210             215             220
aag agg cac aca ggt aag gga tac cag aag cct tta tct acc tgt ggt   720
Lys Arg His Thr Gly Lys Gly Tyr Gln Lys Pro Leu Ser Thr Cys Gly
      225             230             235             240
tct cac ctc att gcc att ttc tta ttt tat ata act gtc atc atc atg   768
Ser His Leu Ile Ala Ile Phe Leu Phe Tyr Ile Thr Val Ile Ile Met
      245             250             255
tac ata cga cca agt tcc agt cat tcc atg gac aca gac aaa att gca   816
Tyr Ile Arg Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Ile Ala

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                260                265                270
tct gtg ttc tac act atg atc atc ccc atg ctc agt cct ata gtc tat      864
Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Ser Pro Ile Val Tyr
                275                280                285

acc ctg agg aac aaa gac gtg aag aat gca ttc atg aag gtt gtt gag      912
Thr Leu Arg Asn Lys Asp Val Lys Asn Ala Phe Met Lys Val Val Glu
                290                295                300

aag gca aaa tat tct cta gat tca gtc ttt taa      945
Lys Ala Lys Tyr Ser Leu Asp Ser Val Phe
305                310

<210> 128
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 128
Met Glu Asn Asn Thr Glu Val Ser Glu Phe Ile Leu Leu Gly Leu Thr
1      5      10      15

Asn Ala Pro Glu Leu Gln Val Pro Leu Phe Ile Met Phe Thr Leu Ile
20      25      30

Tyr Leu Ile Thr Leu Thr Gly Asn Leu Gly Met Ile Ile Leu Ile Leu
35      40      45

Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
50      55      60

Ser Leu Ala Gly Ile Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Leu
65      70      75      80

Thr Gly Leu Leu Ile Glu Asp Lys Ala Ile Ser Tyr Ser Ala Cys Ala
85      90      95

Ala Gln Met Phe Phe Cys Ala Val Phe Ala Thr Val Glu Asn Tyr Leu
100     105     110

Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Asn Pro Leu
115     120     125

His Tyr Thr Thr Thr Met Thr Thr Arg Val Cys Ala Cys Leu Ala Ile
130     135     140

Gly Cys Tyr Val Ile Gly Phe Leu Asn Ala Ser Ile Gln Ile Gly Asp
145     150     155     160

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Thr Phe Arg Leu Ser Phe Cys Met Ser Asn Val Ile His His Phe Phe
 165 170 175

Cys Asp Lys Pro Ala Val Ile Thr Leu Thr Cys Ser Glu Lys His Ile
 180 185 190

Ser Glu Leu Ile Leu Val Leu Ile Ser Ser Phe Asn Val Phe Phe Ala
 195 200 205

Leu Leu Val Thr Leu Ile Ser Tyr Leu Phe Ile Leu Ile Thr Ile Leu
 210 215 220

Lys Arg His Thr Gly Lys Gly Tyr Gln Lys Pro Leu Ser Thr Cys Gly
 225 230 235 240

Ser His Leu Ile Ala Ile Phe Leu Phe Tyr Ile Thr Val Ile Ile Met
 245 250 255

Tyr Ile Arg Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Ile Ala
 260 265 270

Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Ser Pro Ile Val Tyr
 275 280 285

Thr Leu Arg Asn Lys Asp Val Lys Asn Ala Phe Met Lys Val Val Glu
 290 295 300

Lys Ala Lys Tyr Ser Leu Asp Ser Val Phe
 305 310

<210> 129
 <211> 942
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(939)
 <223>

<400> 129
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 Met Gly Asn Trp Ser Thr Val Thr Glu Ile Thr Leu Ile Ala Phe Pro
 1 5 10 15
 gct ctc ctg gag att cga ata tct ctc ttc gtg gtt ctt gtg gta act 96
 Ala Leu Leu Glu Ile Arg Ile Ser Leu Phe Val Val Leu Val Val Thr
 20 25 30

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PCT/BE01/00162

tac aca tta aca gca aca gga aac atc acc atc atc tcc ctg ata tgg Tyr Thr Leu Thr Ala Thr Gly Asn Ile Thr Ile Ile Ser Leu Ile Trp 35 40 45	144
att gat cat cgc ctg caa act cca atg tac ttc ttc etc agt aat ttg Ile Asp His Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu 50 55 60	192
tcc ttt ctg gat atc tta taa acc act gtc att acc cca aag ttg ttg Ser Phe Leu Asp Ile Leu Tyr Thr Thr Val Ile Thr Pro Lys Leu Leu 65 70 75 80	240
gcc tgc ctc cta gga gaa gag aaa acc ata tct ttt got ggt tgc atg Ala Cys Leu Leu Gly Glu Glu Lys Thr Ile Ser Phe Ala Gly Cys Met 85 90 95	288
atc caa aca tat ttc tac ttc ttt ctg ggg acg gtg gag ttt atc etc Ile Gln Thr Tyr Phe Tyr Phe Phe Leu Gly Thr Val Glu Phe Ile Leu 100 105 110	336
ttg gcg gtg atg tcc ttt gac cgc tac atg got atc tgc gac cca ctg Leu Ala Val Met Ser Phe Asp Arg Tyr Met Ala Ile Cys Asp Pro Leu 115 120 125	384
cac tac acg gtc atc atg aac agc agg gcc tgc ctt ctg ctg gtt ctg His Tyr Thr Val Ile Met Asn Ser Arg Ala Cys Leu Leu Val Leu 130 135 140	432
gga tgc tgg gtg gga gcc ttc ctg tct gtg ttg ttt cca acc att gta Gly Cys Trp Val Gly Ala Phe Leu Ser Val Leu Phe Pro Thr Ile Val 145 150 155 160	480
gtg aca agg cta cct tac tgt agg aaa gaa att aat cat ttc ttc tgt Val Thr Arg Leu Pro Tyr Cys Arg Lys Glu Ile Asn His Phe Phe Cys 165 170 175	528
gac att gcc cct ctt ctt cag gtg gcc tgt ata aat act cac etc atc Asp Ile Ala Pro Leu Leu Gln Val Ala Cys Ile Asn Thr His Leu Ile 180 185 190	576
gag aag ata aac ttt ctc ctc tct gcc ctt gtc atc ctg agc tcc ctg Glu Lys Ile Asn Phe Leu Leu Ser Ala Leu Val Ile Leu Ser Ser Leu 195 200 205	624
gca ttc act act ggg tcc tac gtg tac ata att tct acc atc ctg cgt Ala Phe Thr Thr Gly Ser Tyr Val Tyr Ile Ile Ser Thr Ile Leu Arg 210 215 220	672
atc ccc tcc acc cag gcc cgt cag aaa got ttt tct acc tgt gct tct Ile Pro Ser Thr Gln Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala Ser 225 230 235 240	720
cac atc act gtt gtc tcc att gcc cac ggg agc aac atc ttt gtg tat His Ile Thr Val Val Ser Ile Ala His Gly Ser Asn Ile Phe Val Tyr 245 250 255	768
gtg aga ccc aat cag aac tcc tca ctg gat tat gac aag gtg gcc gct Val Arg Pro Asn Gln Asn Ser Ser Leu Asp Tyr Asp Lys Val Ala Ala 260 265 270	816
gtc etc atc aca gtg gtg acc cct etc ctg aac cct ttt atc tac agc	864

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Val Leu Ile Thr Val Val Thr Pro Leu Leu Asn Pro Phe Ile Tyr Ser
 275 280 285

ttg agg aat gag aag gta cag gaa gtg ttg aga gag aca gtg aac aga 912
 Leu Arg Asn Glu Lys Val Gln Glu Val Leu Arg Glu Thr Val Asn Arg
 290 295 300

atc atg acc ttg ata caa agg aaa act tga 942
 Ile Met Thr Leu Ile Gln Arg Lys Thr
 305 310

<210> 130
 <211> 313
 <212> PRT
 <213> Homo Sapiens

<400> 130

Met Gly Asn Trp Ser Thr Val Thr Glu Ile Thr Leu Ile Ala Phe Pro
 1 5 10 15

Ala Leu Leu Glu Ile Arg Ile Ser Leu Phe Val Val Leu Val Val Thr
 20 25 30

Tyr Thr Leu Thr Ala Thr Gly Asn Ile Thr Ile Ile Ser Leu Ile Trp
 35 40 45

Ile Asp His Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60

Ser Phe Leu Asp Ile Leu Tyr Thr Thr Val Ile Thr Pro Lys Leu Leu
 65 70 75 80

Ala Cys Leu Leu Gly Glu Glu Lys Thr Ile Ser Phe Ala Gly Cys Met
 85 90 95

Ile Gln Thr Tyr Phe Tyr Phe Phe Leu Gly Thr Val Glu Phe Ile Leu
 100 105 110

Leu Ala Val Met Ser Phe Asp Arg Tyr Met Ala Ile Cys Asp Pro Leu
 115 120 125

His Tyr Thr Val Ile Met Asn Ser Arg Ala Cys Leu Leu Leu Val Leu
 130 135 140

Gly Cys Trp Val Gly Ala Phe Leu Ser Val Leu Phe Pro Thr Ile Val
 145 150 155 160

Val Thr Arg Leu Pro Tyr Cys Arg Lys Glu Ile Asn His Phe Phe Cys
 165 170 175

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Asp Ile Ala Pro Leu Leu Gln Val Ala Cys Ile Asn Thr His Leu Ile
 180 185 190
 Glu Lys Ile Asn Phe Leu Leu Ser Ala Leu Val Ile Leu Ser Ser Leu
 195 200 205
 Ala Phe Thr Thr Gly Ser Tyr Val Tyr Ile Ile Ser Thr Ile Leu Arg
 210 215 220
 Ile Pro Ser Thr Gln Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala Ser
 225 230 235 240
 His Ile Thr Val Val Ser Ile Ala His Gly Ser Asn Ile Phe Val Tyr
 245 250 255
 Val Arg Pro Asn Gln Asn Ser Ser Leu Asp Tyr Asp Lys Val Ala Ala
 260 265 270
 Val Leu Ile Thr Val Val Thr Pro Leu Leu Asn Pro Phe Ile Tyr Ser
 275 280 285
 Leu Arg Asn Glu Lys Val Gln Glu Val Leu Arg Glu Thr Val Asn Arg
 290 295 300
 Ile Met Thr Leu Ile Gln Arg Lys Thr
 305 310

<210> 131
 <211> 945
 <212> DNA
 <213> Homo Sapiens
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 <221> CDS
 <222> (1)..(945)
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<400> 131
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 Met Trp Glu Asn Trp Thr Ile Val Ser Glu Phe Val Leu Val Ser Phe
 1 5 10 15
 tca gcc ctg tcc aat gag att cag gct cta ctg ttt ctc att ttc ttg 96
 Ser Ala Leu Ser Thr Glu Leu Gln Ala Leu Leu Phe Leu Leu Phe Leu
 20 25 30
 acc att tac ttg gtt act tta atg ggc aat gtc ctc atc atc ctg gtc 144
 Thr Ile Tyr Leu Val Thr Leu Met Gly Asn Val Leu Ile Ile Leu Val
 35 40 45

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act ata gct gac tct gca cta caa agt cct atg tac ttc ttc ctc aga      192
Thr Ile Ala Asp Ser Ala Leu Gln Ser Pro Met Tyr Phe Phe Leu Arg
50                      55                      60

aac ttg tcc ttc ctg gag ata ggt ttc aac ttg gtc att gtg ccc aag      240
Asn Leu Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Val Pro Lys
65                      70                      75                      80

atg ctg ggg acc ctg atc att caa gac aca acc atc tcc ttc ctt gga      288
Met Leu Gly Thr Leu Ile Ile Gln Asp Thr Thr Ile Ser Phe Leu Gly
85                      90                      95

tgt gcc act cag atg tat ttc ttc ttc ttt ttt ggg gct gct gag tgc      336
Cys Ala Thr Gln Met Tyr Phe Phe Phe Phe Gly Ala Ala Glu Cys
100                     105                     110

tgc ctc ctg gcc acc atg gca tat gac cgc tac gtg gcc atc tgt gac      384
Cys Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asp
115                     120                     125

ccc ttg cac tac cca gtc atc atg ggc cac ata tcc tgt gcc cag ctg      432
Pro Leu His Tyr Pro Val Ile Met Gly His Ile Ser Cys Ala Gln Leu
130                     135                     140

gca gct gcc tct tgg ttc tca ggg ttt tca gtg gcc act gtg caa acc      480
Ala Ala Ala Ser Trp Phe Ser Gly Phe Ser Val Ala Thr Val Gln Thr
145                     150                     155                     160

aca tgg att ttc agt ttc cct ttt tgt ggc ccc aac agg gtg aac csc      528
Thr Trp Ile Phe Ser Phe Pro Phe Cys Gly Pro Asn Arg Val Asn His
165                     170                     175

ttc ttc tgt gac agc cct cct gtt att gca ctg gtc tgt gct gac acc      576
Phe Phe Cys Asp Ser Pro Pro Val Ile Ala Leu Val Cys Ala Asp Thr
180                     185                     190

tct gtg ttt gaa ctg gag gct ctg aca gcc act gtc cca ttc att ctc      624
Ser Val Phe Glu Leu Glu Ala Leu Thr Ala Thr Val Pro Phe Ile Leu
195                     200                     205

ttt cct ttc ttg ctg atc ctg gga tcc tat gtc cgc atc ctc tcc act      672
Phe Pro Phe Leu Leu Ile Leu Gly Ser Tyr Val Arg Ile Leu Ser Thr
210                     215                     220

atc ttc agg atg ccg tca gct gag ggg aaa cat cag gca ttc tcc acc      720
Ile Phe Arg Met Pro Ser Ala Glu Gly Lys His Gln Ala Phe Ser Thr
225                     230                     235                     240

tgt tcc gcc cac ctc ttg gtt gtc tct ctc ttc tat agc act gcc atc      768
Cys Ser Ala His Leu Leu Val Val Ser Leu Phe Tyr Ser Thr Ala Ile
245                     250                     255

ctc acg tat ttc cga ccc caa tcc agt gcc tct tct gag agc aag aag      816
Leu Thr Tyr Phe Arg Pro Gln Ser Ser Ala Ser Ser Glu Ser Lys Lys
260                     265                     270

ctg ctg tca ctc tct tcc aca gtg gtg act ccc atg ttg aac ccc atc      864
Leu Leu Ser Leu Ser Ser Thr Val Val Thr Pro Met Leu Asn Pro Ile
275                     280                     285

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atc tac agc tca agg aat aaa gaa gtg aag gct gca ctg aag cgg ctt 912
 ile tyr ser ser arg asn lys glu val lys ala ala leu lys arg leu
 290 295 300

atc cac agg acc ctg ggc tct cag aaa cta tga 945
 ile his arg thr leu gly ser gln lys leu
 305 310

<210> 132
 <211> 314
 <212> PRT
 <213> Homo Sapiens

<400> 132

Met Trp Glu Asn Trp Thr Ile Val Ser Glu Phe Val Leu Val Ser Phe
 1 5 10 15

Ser Ala Leu Ser Thr Glu Leu Gln Ala Leu Leu Phe Leu Leu Phe Leu
 20 25 30

Thr Ile Tyr Leu Val Thr Leu Met Gly Asn Val Leu Ile Ile Leu Val
 35 40 45

Thr Ile Ala Asp Ser Ala Leu Gln Ser Pro Met Tyr Phe Phe Leu Arg
 50 55 60

Asn Leu Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Val Pro Lys
 65 70 75 80

Met Leu Gly Thr Leu Ile Ile Gln Asp Thr Thr Ile Ser Phe Leu Gly
 85 90 95

Cys Ala Thr Gln Met Tyr Phe Phe Phe Phe Gly Ala Ala Glu Cys
 100 105 110

Cys Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asp
 115 120 125

Pro Leu His Tyr Pro Val Ile Met Gly His Ile Ser Cys Ala Gln Leu
 130 135 140

Ala Ala Ala Ser Trp Phe Ser Gly Phe Ser Val Ala Thr Val Gln Thr
 145 150 155 160

Thr Trp Ile Phe Ser Phe Pro Phe Cys Gly Pro Asn Arg Val Asn His
 165 170 175

Phe Phe Cys Asp Ser Pro Pro Val Ile Ala Leu Val Cys Ala Asp Thr

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<210> 133
<211> 939
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(936)
<223>
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<400> 133																		
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Met	Glu	Arg	Val	Asn	Glu	Thr	Val	Val	Arg	Glu	Val	Ile	Phe	Leu	Gly			
1				5					10				15					
ttc	tca	tcc	ctg	gcc	agg	ctg	cag	cag	ctg	ctc	ttt	gtt	atc	ttc	ctg		96	
Phe	Ser	Ser	Leu	Ala	Arg	Leu	Gln	Gln	Leu	Leu	Phe	Val	Ile	Phe	Leu			
			20				25						30					
ctc	ctc	tac	ctg	ttc	act	ctg	ggc	acc	aat	gca	atc	atc	att	tcc	acc		144	
Leu	Leu	Tyr	Leu	Phe	Thr	Leu	Gly	Thr	Asn	Ala	Ile	Ile	Ile	Ser	Thr			
			35				40					45						
att	gtc	ctg	gac	agg	gcc	ctt	cat	atc	ccc	atg	tac	ttc	ttc	ctt	gcc		192	
Ile	Val	Leu	Asp	Arg	Ala	His	Ile	His	Pro	Met	Tyr	Phe	Phe	Leu	Ala			

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50	55	60	
atc ctc tct tgc tct gag att tgc tac acc ttc atc att gta ccc aag Ile Leu Ser Cys Ser Glu Ile Cys Tyr Thr Phe Ile Ile Val Pro Lys 65 70 75 80	240		
atg ctg gtt gac ctg ctg tcc cag aag aag acc att tct ttc ctg ggc Met Leu Val Asp Leu Leu Ser Gln Lys Lys Thr Ile Ser Phe Leu Gly 85 90 95	288		
tgt gcc atc caa atg ttt tcc ttc ctc ttc ctt ggc tgc tct cac tcc Cys Ala Ile Gln Met Phe Ser Phe Leu Phe Leu Gly Cys Ser His Ser 100 105 110	336		
ttt ctg ctg gca gtc atg ggt tat gat cgt tac ata gcc atc tgt aac Phe Leu Leu Ala Val Met Gly Tyr Asp Arg Tyr Ile Ala Ile Cys Asn 115 120 125	384		
cca ctg cgc tac tca gtc cta atg gga cat ggg gtc tgt atg gga cta Pro Leu Arg Tyr Ser Val Leu Met Gly His Gly Val Cys Met Gly Leu 130 135 140	432		
gtg gct gct gcc tgt gcc tgt gcc ttc act gtt gca cag atc atc aca Val Ala Ala Ala Cys Ala Cys Gly Phe Thr Val Ala Gln Ile Ile Thr 145 150 155	480		
tcc ttg gta ttt cac ctg cct ttt tat tcc tcc aat caa cta cat cac Ser Leu Val Phe His Leu Pro Phe Tyr Ser Ser Asn Gln Leu His His 160 165 170 175	528		
ttc ttc tgt gac att gct cct gtc ctc aag ctg gca tct cac cat aac Phe Phe Cys Asp Ile Ala Pro Val Leu Lys Leu Ala Ser His His Asn 180 185 190	576		
cac ttt agt cag att gtc atc ttc atg ctc tgt aca ttg gtc ctg gct His Phe Ser Gln Ile Val Ile Phe Met Leu Cys Thr Leu Val Leu Ala 195 200 205	624		
atc ccc tta ttg ttg atc ttg gtg tcc tat gtt cac atc ctc tct gcc Ile Pro Leu Leu Leu Ile Leu Val Ser Tyr Val His Ile Leu Ser Ala 210 215 220	672		
ata ctt cag ttt cct tcc aca ctg ggt agg tgc aaa gct ttt tct acc Ile Leu Gln Phe Pro Ser Thr Leu Gly Arg Cys Lys Ala Phe Ser Thr 225 230 235 240	720		
tgt gta tct cac ctc att att gtc act gtc cac tat ggc tgt gcc tcc Cys Val Ser His Leu Ile Ile Val Thr Val His Tyr Gly Cys Ala Ser 245 250 255	768		
ttt atc tac tta agg cct cag tcc aac tac tcc tca agc cag gat got Phe Ile Tyr Leu Arg Pro Gln Ser Asn Tyr Ser Ser Ser Gln Asp Ala 260 265 270	816		
cta ata tca gta tcc tac act att ata act coa ttg ttc aac cca atg Leu Ile Ser Val Ser Tyr Thr Ile Ile Thr Pro Leu Phe Asn Pro Met 275 280 285	864		
att tat agc ttg aga aat aaa gag ttc aaa tca gct ctt tgt aaa att Ile Tyr Ser Leu Arg Asn Lys Glu Phe Lys Ser Ala Leu Cys Lys Ile 290 295 300	912		

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gtg aga aga aca att ecc ctg ttg taa
 Val Arg Arg Thr Ile Ser Leu Leu
 305 310

939

<210> 134
 <211> 313
 <212> PRT
 <213> Homo Sapiens
 <400> 134

Met Glu Arg Val Asn Glu Thr Val Val Arg Glu Val Ile Phe Leu Gly
 1 5 10 15

Phe Ser Ser Leu Ala Arg Leu Gln Gln Leu Leu Phe Val Ile Phe Leu
 20 25 30

Leu Leu Tyr Leu Phe Thr Leu Gly Thr Asn Ala Ile Ile Ile Ser Thr
 35 40 45

Ile Val Leu Asp Arg Ala Leu His Ile Pro Met Tyr Phe Phe Leu Ala
 50 55 60

Ile Leu Ser Cys Ser Glu Ile Cys Tyr Thr Phe Ile Ile Val Pro Lys
 65 70 75 80

Met Leu Val Asp Leu Leu Ser Gln Lys Lys Thr Ile Ser Phe Leu Gly
 85 90 95

Cys Ala Ile Gln Met Phe Ser Phe Leu Phe Leu Gly Cys Ser His Ser
 100 105 110

Phe Leu Leu Ala Val Met Gly Tyr Asp Arg Tyr Ile Ala Ile Cys Asn
 115 120 125

Pro Leu Arg Tyr Ser Val Leu Met Gly His Gly Val Cys Met Gly Leu
 130 135 140

Val Ala Ala Ala Cys Ala Cys Gly Phe Thr Val Ala Gln Ile Ile Thr
 145 150 155 160

Ser Leu Val Phe His Leu Pro Phe Tyr Ser Ser Asn Gln Leu His His
 165 170 175

Phe Phe Cys Asp Ile Ala Pro Val Leu Lys Leu Ala Ser His His Asa
 180 185 190

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His Phe Ser Gln Ile Val Ile Phe Met Leu Cys Thr Leu Val Leu Ala
195 200 205

Ile Pro Leu Leu Leu Ile Leu Val Ser Tyr Val His Ile Leu Ser Ala
210 215 220

Ile Leu Gln Phe Pro Ser Thr Leu Gly Arg Cys Lys Ala Phe Ser Thr
225 230 235 240

Cys Val Ser His Leu Ile Ile Val Thr Val His Tyr Gly Cys Ala Ser
245 250 255

Phe Ile Tyr Leu Arg Pro Gln Ser Asn Tyr Ser Ser Ser Gln Asp Ala
260 265 270

Leu Ile Ser Val Ser Tyr Thr Ile Ile Thr Pro Leu Phe Asn Pro Met
275 280 285

Ile Tyr Ser Leu Arg Asn Lys Glu Phe Lys Ser Ala Leu Cys Lys Ile
290 295 300

Val Arg Arg Thr Ile Ser Leu Leu
305 310

<210> 135
<211> 930
<212> DNA
<213> Homo Sapiens

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<221> CDS
<222> (1)..(927)
<223>

<400> 135
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Met Glu Gly Ile Asn Lys Thr Ala Lys Met Gln Phe Phe Arg Pro
1 5 10 15
ttc tca cct gac cct gag gtc cag atg ctg att ttt gtg gtc ttc ctg 96
Phe Ser Pro Asp Pro Glu Val Gln Met Leu Ile Phe Val Val Phe Leu
20 25 30
atg atg tat ctg acc agc ctc ggt gga aat gct aca att gca gtc att 144
Met Met Tyr Leu Thr Ser Leu Gly Gly Asn Ala Thr Ile Ala Val Ile
35 40 45
gtt cag atc aat cat tcc ctc cac acc ccc atg tac ttt ttc ctg gct 192
Val Gln Ile Asn His Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ala
50 55 60
aat ctg gca gtt cta gaa atc ttc tat aca tct tcc atc acc cca ttg 240

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Asn Leu Ala Val Leu Glu Ile Phe Tyr Thr Ser Ser Ile Thr Pro Leu
65          70          75          80

gcc ttg gca aac ctc ctt tca atg ggc aaa act cct gtt tcc atc acg      288
Ala Leu Ala Asn Leu Leu Ser Met Gly Lys Thr Pro Val Ser Ile Thr
          85          90          95

gga tgt ggc acc cag atg ttt ttc ttt gtc ttc ttg ggt ggg gct gat      336
Gly Cys Gly Thr Gln Met Phe Phe Phe Val Phe Leu Gly Gly Ala Asp
          100          105          110

tgt gtc ctg ctg gta gtc atg gct tat gac cgg ttt ata ggg atc tgt      384
Cys Val Leu Leu Val Val Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys
          115          120          125

cac cct ctg cga tac agg ctc atc atg ago tgg tcc ttg tgt gtg gag      432
His Pro Leu Arg Tyr Arg Leu Ile Met Ser Trp Ser Leu Cys Val Glu
          130          135          140

ctg ctg gta gcc tcc ttg gtg ctg ggg ttc ctg ttg tca ctg cca ctc      480
Leu Leu Val Gly Ser Leu Val Leu Gly Phe Leu Leu Ser Leu Pro Leu
          145          150          155

acc att tta atc ttc cat ctc cca ttc tgc cac aat gat gag atc tac      528
Thr Ile Leu Ile Phe His Leu Pro Phe Cys His Asn Asp Glu Ile Tyr
          165          170          175

cac ttc tac tgt gac atg cct gca gtc atg cgc ctg gct tgt gca gac      576
His Phe Tyr Cys Asp Met Pro Ala Val Met Arg Leu Ala Cys Ala Asp
          180          185          190

aca cgc gtt cac aag act gct ctg tat atc atc ago ttc atc gtc ctt      624
Thr Arg Val His Lys Thr Ala Leu Tyr Ile Ile Ser Phe Ile Val Leu
          195          200          205

agc atc ccc ctc tca ttg atc tcc atc tcc tat gtc ttc atc gtg gta      672
Ser Ile Pro Leu Ser Leu Ile Ser Ile Ser Tyr Val Phe Ile Val Val
          210          215          220

gcc att tta cgg atc cgg tca gca gaa ggg cgc cag caa gcc tac tct      720
Ala Ile Leu Arg Ile Arg Ser Ala Glu Gly Arg Gln Gln Ala Tyr Ser
          225          230          235

acc tgc tct tct cac atc tta gtg gtc ctc ctg cag tat ggc tgc acc      768
Thr Cys Ser Ser His Ile Leu Val Val Leu Leu Gln Tyr Gly Cys Thr
          245          250          255

agc ttt ata tac ttg tcc ccc agt tcc agc tac tct cct gag atg ggc      816
Ser Phe Ile Tyr Leu Ser Pro Ser Ser Ser Tyr Ser Pro Glu Met Gly
          260          265          270

cgg gtg gta tct gtg gcc tac aca ttt atc act ccc att tta aac ccc      864
Arg Val Val Ser Val Ala Tyr Thr Phe Ile Thr Pro Ile Leu Asn Pro
          275          280          285

ttg atc tat agt ttg agg aac aag gaa ctg aaa gat gcc cta agg aaa      912
Leu Ile Tyr Ser Leu Arg Asn Lys Glu Leu Lys Asp Ala Leu Arg Lys
          290          295          300

gca ttg aga aaa ttc tag      930
Ala Leu Arg Lys Phe

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305

<210> 136
 <211> 309
 <212> PPT
 <213> Homo Sapiens

<400> 136

Met Glu Gly Ile Asn Lys Thr Ala Lys Met Gln Phe Phe Phe Arg Pro
 1 5 10 15

Phe Ser Pro Asp Pro Glu Val Gln Met Leu Ile Phe Val Val Phe Leu
 20 25 30

Met Met Tyr Leu Thr Ser Leu Gly Gly Asn Ala Thr Ile Ala Val Ile
 35 40 45

Val Gln Ile Asn His Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 50 55 60

Asn Leu Ala Val Leu Glu Ile Phe Tyr Thr Ser Ser Ile Thr Pro Leu
 65 70 75 80

Ala Leu Ala Asn Leu Leu Ser Met Gly Lys Thr Pro Val Ser Ile Thr
 85 90 95

Gly Cys Gly Thr Gln Met Phe Phe Phe Val Phe Leu Gly Gly Ala Asp
 100 105 110

Cys Val Leu Leu Val Val Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys
 115 120 125

His Pro Leu Arg Tyr Arg Leu Ile Met Ser Trp Ser Leu Cys Val Glu
 130 135 140

Leu Leu Val Gly Ser Leu Val Leu Gly Phe Leu Leu Ser Leu Pro Leu
 145 150 155 160

Thr Ile Leu Ile Phe His Leu Pro Phe Cys His Asn Asp Glu Ile Tyr
 165 170 175

His Phe Tyr Cys Asp Met Pro Ala Val Met Arg Leu Ala Cys Ala Asp
 180 185 190

Thr Arg Val His Lys Thr Ala Leu Tyr Ile Ile Ser Phe Ile Val Leu
 195 200 205

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PCT/BE01/00162

Ser Ile Pro Leu Ser Leu Ile Ser Ile Ser Tyr Val Phe Ile Val Val
210 215 220

Ala Ile Leu Arg Ile Arg Ser Ala Glu Gly Arg Gln Gln Ala Tyr Ser
225 230 235 240

Thr Cys Ser Ser His Ile Leu Val Val Leu Leu Gln Tyr Gly Cys Thr
245 250 255

Ser Phe Ile Tyr Leu Ser Pro Ser Ser Ser Tyr Ser Pro Glu Met Gly
260 265 270

Arg Val Val Ser Val Ala Tyr Thr Phe Ile Thr Pro Ile Leu Asn Pro
275 280 285

Leu Ile Tyr Ser Leu Arg Asn Lys Glu Leu Lys Asp Ala Leu Arg Lys
290 295 300

Ala Leu Arg Lys Phe
305

<210> 137

<211> 892

<212> DNA

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(891)

<223>

<400> 137

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1 5 10 15

ttc tca cct gac cct gag gtc cag atg ctg att ttt gtg gtc ttc ctg 96
Phe Ser Pro Asp Pro Glu Val Gln Met Leu Ile Phe Val Val Phe Leu
20 25 30

atg atg tat ctg acc agc ctc ggt gga aat gct aca att gca gtc att 144
Met Met Tyr Leu Thr Ser Leu Gly Gly Asn Ala Thr Ile Ala Val Ile
35 40 45

gtt cag atc aat cat tcc ctc cac acc ccc atg tac ttt ttc ctg gct 192
Val Gln Ile Asn His Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ala
50 55 60

aat ctg gca gtt cta gaa atc ttc tat aca tot tcc atc acc cca ttg 240
Asn Leu Ala Val Leu Glu Ile Phe Tyr Thr Ser Ser Ile Thr Pro Leu
65 70 75 80

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gac ttg gca aac ctc ctt tca atg ggc aaa act cct gtt tcc atc acg      288
Ala Leu Ala Asn Leu Leu Ser Met Gly Lys Thr Pro Val Ser Ile Thr
          95                      90                      95

gga tgt ggc acc cag atg ttt ttc ttt gtc ttc ttg ggt ggg gct gat      336
Gly Cys Gly Thr Gln Met Phe Phe Phe Val Phe Leu Gly Gly Ala Asp
          100                      105                      110

tgt gtc ctg ctg gta gtc atg gct tat gac cag ttt ata gcg atc tgt      384
Cys Val Leu Leu Val Val Met Ala Tyr Asp Gln Phe Ile Ala Ile Cys
          115                      120                      125

cac cct ctg cga tac agg ctc atc atg agc tgg tcc ttg tgt gtg gag      432
His Pro Leu Arg Tyr Arg Leu Ile Met Ser Trp Ser Leu Cys Val Glu
          130                      135                      140

ctg ctg gta ggc tcc ttg gtg ctg ggg ttc ctg ttg tca ctg cca ctc      480
Leu Leu Val Gly Ser Leu Val Leu Gly Phe Leu Leu Ser Leu Pro Leu
          145                      150                      155                      160

acc att tta atc ttc cat ctc cca ttc tgc cgc aat gat gag atc tac      528
Thr Ile Leu Ile Phe His Leu Pro Phe Cys His Asn Asp Glu Ile Tyr
          165                      170                      175

cac ttc tac tgt gac atg cct gca gtc atg cgc ctg gct tgt gca gac      576
His Phe Tyr Cys Asp Met Pro Ala Val Met Arg Leu Ala Cys Ala Asp
          180                      185                      190

aca cgc gtt cac aag act gct ctg tat atc atc agc ttc atc gtc ctt      624
Thr Arg Val His Lys Thr Ala Leu Tyr Ile Ile Ser Phe Ile Val Leu
          195                      200                      205

agc atc ccc ctc tca ttg atc tcc atc tcc tat gtc ttc atc gtg gta      672
Ser Ile Pro Leu Ser Leu Ile Ser Ile Ser Tyr Val Phe Ile Val Val
          210                      215                      220

gac att tta cgg atc cgg tca gca gaa ggg cgc cag caa gcc tac tct      720
Ala Ile Leu Arg Ile Arg Ser Ala Glu Gly Arg Gln Gln Ala Tyr Ser
          225                      230                      235                      240

acc tgc tot tct cac atc tta gtg gtc ctc ctg cag tat ggc tgc acc      768
Thr Cys Ser Ser His Ile Leu Val Val Leu Leu Gln Tyr Gly Cys Thr
          245                      250                      255

agc ttt ata tac ttg tcc ccc agt tcc agc tac tct cct gag atg ggc      816
Ser Phe Ile Tyr Leu Ser Pro Ser Ser Ser Tyr Ser Pro Glu Met Gly
          260                      265                      270

cgg gtg gta tot gtg gcc tac aca ttt atc act ccc att tta aac ccc      864
Arg Val Val Ser Val Ala Tyr Thr Phe Ile Thr Pro Ile Leu Asn Pro
          275                      280                      285

ttg atc tat agt ttg agg aac aag gaa c                                892
Leu Ile Tyr Ser Leu Arg Asn Lys Glu
          290                      295

<210> 138
<211> 297
<212> PRT
<213> Homo Sapiens

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<400> 138

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Met Glu Gly Ile Asn Lys Thr Ala Lys Met Gln Phe Phe Phe Arg Pro
1      5      10      15

Phe Ser Pro Asp Pro Glu Val Gln Met Leu Ile Phe Val Val Phe Leu
20      25      30

Met Met Tyr Leu Thr Ser Leu Gly Gly Asn Ala Thr Ile Ala Val Ile
35      40      45

Val Gln Ile Asn His Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ala
50      55      60

Asn Leu Ala Val Leu Glu Ile Phe Tyr Thr Ser Ser Ile Thr Pro Leu
65      70      75      80

Ala Leu Ala Asn Leu Leu Ser Met Gly Lys Thr Pro Val Ser Ile Thr
85      90      95

Gly Cys Gly Thr Gln Met Phe Phe Phe Val Phe Leu Gly Gly Ala Asp
100     105     110

Cys Val Leu Leu Val Val Met Ala Tyr Asp Gln Phe Ile Ala Ile Cys
115     120     125

His Pro Leu Arg Tyr Arg Leu Ile Met Ser Trp Ser Leu Cys Val Glu
130     135     140

Leu Leu Val Gly Ser Leu Val Leu Gly Phe Leu Leu Ser Leu Pro Leu
145     150     155     160

Thr Ile Leu Ile Phe His Leu Pro Phe Cys His Asn Asp Glu Ile Tyr
165     170     175

His Phe Tyr Cys Asp Met Pro Ala Val Met Arg Leu Ala Cys Ala Asp
180     185     190

Thr Arg Val His Lys Thr Ala Leu Tyr Ile Ile Ser Phe Ile Val Leu
195     200     205

Ser Ile Pro Leu Ser Leu Ile Ser Ile Ser Tyr Val Phe Ile Val Val
210     215     220

Ala Ile Leu Arg Ile Arg Ser Ala Glu Gly Arg Gln Gln Ala Tyr Ser
225     230     235     240

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Thr Cys Ser Ser His Ile Leu Val Val Leu Leu Gln Tyr Gly Cys Thr
245 250 255

Ser Phe Ile Tyr Leu Ser Pro Ser Ser Ser Tyr Ser Pro Glu Met Gly
260 265 270

Arg Val Val Ser Val Ala Tyr Thr Phe Ile Thr Pro Ile Leu Asn Pro
275 280 285

Leu Ile Tyr Ser Leu Arg Asn Lys Glu
290 295

<210> 139
<211> 951
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(948)
<223>

<400> 139
atg gtt gaa gaa aat cat acc atg aaa aat gag ttt atc ctc aca gga 48
Met Val Glu Glu Asn His Thr Met Lys Asn Glu Phe Ile Leu Thr Gly
1 5 10 15
ttt aca gat cac cct gag ctg aag act ctg ctg ttt gtg gtg ttc ttt 96
Phe Thr Asp His Pro Glu Leu Lys Thr Leu Leu Phe Val Val Phe Phe
20 25 30
gcc atc tat ctg atc acc gtg gtg ggg aat att agt ttg gtg gca ctg 144
Ala Ile Tyr Leu Ile Thr Val Val Gly Asn Ile Ser Leu Val Ala Leu
35 40 45
ata ttt aca cac tgt cgg ctt cac aca cca atg tac atc ttt ctg gga 192
Ile Phe Thr His Cys Arg Leu His Thr Pro Met Tyr Ile Phe Leu Gly
50 55 60
aat ctg gct ctt gtg gat tct tgc tgt gcc tgt gct att acc ccc aaa 240
Asn Leu Ala Leu Val Asp Ser Cys Cys Ala Cys Ala Ile Thr Pro Lys
65 70 75 80
atg tta gag aac ttc ttt tct gag ggc aaa agg att tcc ctc tat gaa 288
Met Leu Glu Asn Phe Phe Ser Glu Gly Lys Arg Ile Ser Leu Tyr Glu
85 90 95
tgt gca gta cag ttt tat ttt ctt tgc act gtg gaa act gca gac tgc 236
Cys Ala Val Gln Phe Tyr Phe Leu Cys Thr Val Glu Thr Ala Asp Cys
100 105 110
ttt ctt ctg gca gca gtg gcc tat gac cgc tat gtg gcc atc tgc aac 384
Phe Leu Leu Ala Ala Val Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115 120 125

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cca ctg cag tac cac atc atg atg tcc aag aaa ctc tgc att cag atg 432
 Pro Leu Gln Tyr His Ile Met Met Ser Lys Lys Leu Cys Ile Gln Met
 130 135 140

acc aca ggc gcc ttc ata gct gga aat ctg cat tcc atg att cat gta 480
 Thr Thr Gly Ala Phe Ile Ala Gly Asn Leu His Ser Met Ile His Val
 145 150 155 160

ggg ctt gta ttt agg tta gtt ttc tgt gga ttg aat cac atc aac cac 528
 Gly Leu Val Phe Arg Leu Val Phe Cys Gly Leu Asn His Ile Asn His
 165 170 175

ttt tac tgt gat act ctt ccc ttg tat aga ctc tcc tgt gtt gac cct 576
 Phe Tyr Cys Asp Thr Leu Pro Leu Tyr Arg Leu Ser Cys Val Asp Pro
 180 185 190

ttc atc aat gaa ctg gtt cta ttc atc ttc tca ggt tca gtt caa gtc 624
 Phe Ile Asn Glu Leu Val Leu Phe Ile Phe Ser Gly Ser Val Gln Val
 195 200 205

ttt acc ata ggt agt gtc tta ata tct tat ctc tat att ctt ctt gct 672
 Phe Thr Ile Gly Ser Val Leu Ile Ser Tyr Leu Tyr Ile Leu Leu Thr
 210 215 220

att ttc aga atg aaa tcc aag gag gga agg gcc aaa gcc ttt tct act 720
 Ile Phe Arg Met Lys Ser Lys Glu Gly Arg Ala Lys Ala Phe Ser Thr
 225 230 235 240

tgt gga tcc cac ttt tca tca gtt tca tta ttc tat gga tct att ttt 768
 Cys Ala Ser His Phe Ser Ser Val Ser Leu Phe Tyr Gly Ser Ile Phe
 245 250 255

ttc cta tac att aga cca aat ttg ctt gaa gaa gga ggt aat gat ata 816
 Phe Leu Tyr Ile Arg Pro Asn Leu Glu Glu Gly Gly Asn Asp Ile
 260 265 270

cca gct gct att tta ttt aca ata gta gtt ccc tta cta aat cct ttc 864
 Pro Ala Ala Ile Leu Phe Thr Ile Val Val Pro Leu Leu Asn Pro Phe
 275 280 285

att tat agt ctg aga aac aag gaa gta ata agt gtc tta aga aaa att 912
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Ile Ser Val Leu Arg Lys Ile
 290 295 300

ctg ctg aaa ata aaa tct caa gga agt gtg aac aaa tga 951
 Leu Leu Lys Ile Lys Ser Gln Gly Ser Val Asn Lys
 305 310 315

<210> 140
 <211> 316
 <212> PRT
 <213> Homo Sapiens

<400> 140
 Met Val Glu Glu Asn His Thr Met Lys Asn Glu Phe Ile Leu Thr Gly
 1 5 10 15

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Phe Thr Asp His Pro Glu Leu Lys Thr Leu Leu Phe Val Val Phe Phe
 20 25 30
 Ala Ile Tyr Leu Ile Thr Val Val Gly Asn Ile Ser Leu Val Ala Leu
 35 40 45
 Ile Phe Thr His Cys Arg Leu His Thr Pro Met Tyr Ile Phe Leu Gly
 50 55 60
 Asn Leu Ala Leu Val Asp Ser Cys Cys Ala Cys Ala Ile Thr Pro Lys
 65 70 75 80
 Met Leu Glu Asn Phe Phe Ser Glu Gly Lys Arg Ile Ser Leu Tyr Glu
 85 90 95
 Cys Ala Val Gln Phe Tyr Phe Leu Cys Thr Val Glu Thr Ala Asp Cys
 100 105 110
 Phe Leu Leu Ala Ala Val Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Gln Tyr His Ile Met Met Ser Lys Lys Leu Cys Ile Gln Met
 130 135 140
 Thr Thr Gly Ala Phe Ile Ala Gly Asn Leu His Ser Met Ile His Val
 145 150 155 160
 Gly Leu Val Phe Arg Leu Val Phe Cys Gly Leu Asn His Ile Asn His
 165 170 175
 Phe Tyr Cys Asp Thr Leu Pro Leu Tyr Arg Leu Ser Cys Val Asp Pro
 180 185 190
 Phe Ile Asn Glu Leu Val Leu Phe Ile Phe Ser Gly Ser Val Gln Val
 195 200 205
 Phe Thr Ile Gly Ser Val Leu Ile Ser Tyr Leu Tyr Ile Leu Leu Thr
 210 215 220
 Ile Phe Arg Met Lys Ser Lys Glu Gly Arg Ala Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Phe Ser Ser Val Ser Leu Phe Tyr Gly Ser Ile Phe
 245 250 255
 Phe Leu Tyr Ile Arg Pro Asn Leu Leu Glu Glu Gly Gly Asn Asp Ile

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                260                265                270
Pro Ala Ala Ile Leu Phe Thr Ile Val Val Pro Leu Leu Asn Pro Phe
    275                280                285

Ile Tyr Ser Leu Arg Asn Lys Glu Val Ile Ser Val Leu Arg Lys Ile
    290                295                300

Leu Leu Lys Ile Lys Ser Gln Gly Ser Val Asn Lys
    305                310                315

<210> 141
<211> 939
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(936)
<223>

<400> 141
atg gat cag aaa aat gga agt tct ttc act gga ttt atc cta ctg ggt      48
Met Asp Gln Lys Asn Gly Ser Ser Phe Thr Gly Phe Ile Leu Leu Gly
1      5      10      15

ttc tct gac agg cct cag ctg gag cta gtc ctc ttt gtg gtt ctt ttg      96
Phe Ser Asp Arg Pro Gln Leu Glu Leu Val Leu Phe Val Val Leu Leu
20     25     30

atc ttc tat atc ttc act ttg ctg ggg aac aaa acc atc att gta tta      144
Ile Phe Tyr Ile Phe Thr Leu Leu Gly Asn Lys Thr Ile Ile Val Leu
35     40     45

tct cac ttg gac cca cat ctt cac act cct atg tat ttt ttc ttc tcc      192
Ser His Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Phe Ser
50     55     60

aac cta agc ttt ttg gat ctg tgt tac aca acc ggc att gtt cca cag      240
Asn Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Gly Ile Val Pro Gln
65     70     75     80

ctc ctg gtt aat ctc agg gga gca gac aaa tca atc tcc tat ggt ggt      288
Leu Leu Val Asn Leu Arg Gly Ala Asp Lys Ser Ile Ser Tyr Gly Gly
85     90     95

tgt gta gtt cag ctg tac atc tct cta ggc ttg gga tct aca gaa tgc      336
Cys Val Val Gln Leu Tyr Ile Ser Leu Gly Leu Gly Ser Thr Glu Cys
100    105    110

gtt ctt ttt tta gtg atg gta ttt gac cgc tat gca gct gtt tgc agg      384
Val Leu Phe Leu Val Met Val Phe Asp Arg Tyr Ala Ala Val Cys Arg
115    120    125

ccc ctc cac tac aca gta gtc atg cac cct tgt ctg tat gtg ctg atg      432
Pro Leu His Tyr Thr Val Val Met His Pro Cys Leu Tyr Val Leu Met

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130          135          140
gct tct act tca tgg gtc att ggt ttt gcc aac tcc cta ttg cag acg      480
Ala Ser Thr Ser Trp Val Ile Gly Phe Ala Asn Ser Leu Leu Gln Thr
145          150          155          160
gtg ctc atc ttg ctt tta aca ctt tgt gga aga aat aaa tta gaa cac      528
Val Leu Ile Leu Leu Thr Leu Cys Gly Arg Asn Lys Leu Glu His
165          170          175
ttt ctt tgt gag gtt cct cca ttg ctc aag ctt gcc tgt gtt gac act      576
Phe Leu Cys Glu Val Pro Pro Leu Leu Lys Leu Ala Cys Val Asp Thr
180          185          190
act atg aat gaa tot gaa cto ttc ttt gtc agt gtc att att ctt ctt      624
Thr Met Asn Glu Ser Glu Leu Phe Phe Val Ser Val Ile Ile Leu Leu
195          200          205
gta cct gtt gca tta atc ata ttc tcc tat agt cag att gtc ags gca      672
Val Pro Val Ala Leu Ile Ile Phe Ser Tyr Ser Gln Ile Val Arg Ala
210          215          220
gtc atg agg ata aag tta gca aca ggg cag aga aaa gtg ttt ggg aca      720
Val Met Arg Ile Lys Leu Ala Thr Gly Gln Arg Lys Val Phe Gly Thr
225          230          235          240
tgt gcc tcc ccc ctc aca gtg gtt tcc ctg ttc tac gcc aca gct atc      768
Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Thr Ala Ile
245          250          255
tat gct tac ctc cag ccc gcc aac aac tac tct cag gat cag gcc aag      816
Tyr Ala Tyr Leu Gln Pro Gly Asn Asn Tyr Ser Gln Asp Gln Gly Lys
260          265          270
ttc atc tct ctc ttc tac acc atc att aca ccc atg atc aac ccc ctc      864
Phe Ile Ser Leu Phe Tyr Thr Ile Ile Thr Pro Met Ile Asn Pro Leu
275          280          285
ata tat aca ctg agg aac aag gat gtg aaa gga gca ctt aag aag gtg      912
Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Lys Lys Val
290          295          300
ctc tgg aag aac tac gac tcc aga tga      939
Leu Trp Lys Asn Tyr Asp Ser Arg
305          310

<210> 142
<211> 312
<212> PRT
<213> Homo Sapiens

<400> 142
Met Asp Gln Lys Asn Gly Ser Ser Phe Thr Gly Phe Ile Leu Leu Gly
1          5          10          15
Phe Ser Asp Arg Pro Gln Leu Glu Leu Val Leu Phe Val Val Leu Leu
20          25          30

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PCT/BE01/00162

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Ile Phe Tyr Ile Phe Thr Leu Leu Gly Asn Lys Thr Ile Ile Val Leu
  35                      40                      45

Ser His Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Phe Ser
  50                      55                      60

Asn Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Gly Ile Val Pro Gln
  65                      70                      75                      80

Leu Leu Val Asn Leu Arg Gly Ala Asp Lys Ser Ile Ser Tyr Gly Gly
                      85                      90                      95

Cys Val Val Gln Leu Tyr Ile Ser Leu Gly Leu Gly Ser Thr Glu Cys
  100                      105                      110

Val Leu Phe Leu Val Met Val Phe Asp Arg Tyr Ala Ala Val Cys Arg
  115                      120                      125

Pro Leu His Tyr Thr Val Val Met His Pro Cys Leu Tyr Val Leu Met
  130                      135                      140

Ala Ser Thr Ser Trp Val Ile Gly Phe Ala Asn Ser Leu Leu Gln Thr
  145                      150                      155                      160

Val Leu Ile Leu Leu Leu Thr Leu Cys Gly Arg Asn Lys Leu Glu His
  165                      170                      175

Phe Leu Cys Glu Val Pro Pro Leu Leu Lys Leu Ala Cys Val Asp Thr
  180                      185                      190

Thr Met Asn Glu Ser Glu Leu Phe Phe Val Ser Val Ile Ile Leu Leu
  195                      200                      205

Val Pro Val Ala Leu Ile Ile Phe Ser Tyr Ser Gln Ile Val Arg Ala
  210                      215                      220

Val Met Arg Ile Lys Leu Ala Thr Gly Gln Arg Lys Val Phe Gly Thr
  225                      230                      235                      240

Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Thr Ala Ile
  245                      250                      255

Tyr Ala Tyr Leu Gln Pro Gly Asn Asn Tyr Ser Gln Asp Gln Gly Lys
  260                      265                      270

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Phe Ile Ser Leu Phe Tyr Thr Ile Ile Thr Pro Met Ile Asn Pro Leu
 275 280 285

Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Lys Lys Val
 290 295 300

Leu Trp Lys Asn Tyr Asp Ser Arg
 305 310

<210> 143
 <211> 924
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(921)
 <223>

<400> 143
 atg aat cac agc gtt gta act gag ttc att att ctg ggc ctc acc aaa 48.
 Met Asn His Ser Val Val Thr Glu Phe Ile Ile Leu Gly Leu Thr Lys
 1 5 10 15
 aag cot gaa ctc cag gga att atc ttc ctc ttt ttt ctc att gtc tat 96
 Lys Pro Glu Leu Gln Gly Ile Ile Phe Leu Phe Phe Leu Ile Val Tyr
 20 25 30
 ctt gtg gct ttt ctc ggc aac atg ctc atc atc att gcc aaa atc tat 144
 Leu Val Ala Phe Leu Gly Asn Met Leu Ile Ile Ile Ala Lys Ile Tyr
 35 40 45
 aac aac acc ttg cat acg ccc atg tat gtt ttc ctt ctg aca ctg gct 192
 Asn Asn Thr Leu His Thr Pro Met Tyr Val Phe Leu Leu Thr Leu Ala
 50 55 60
 gtt gtg gac atc atc tgc aca aca ago atc ata ccg aag atg ctg ggg 240
 Val Val Asp Ile Ile Cys Thr Thr Ser Ile Ile Pro Lys Met Leu Gly
 65 70 75 80
 acc atg cta aca tca gaa aat acc att tca tat gca ggc tgc atg tcc 288
 Thr Met Leu Thr Ser Glu Asn Thr Ile Ser Tyr Ala Gly Cys Met Ser
 85 90 95
 cag ctc ttc ttg ttc aca tgg tct ctg gga gct gag atg gtt ctc ttc 336
 Gln Leu Phe Leu Phe Thr Trp Ser Leu Gly Ala Glu Met Val Leu Phe
 100 105 110
 acc acc atg gcc tat gac cgc tat gtg gcc att tgt ttc cct ctt cat 384
 Thr Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
 115 120 125
 tac agt act gtt atg aac cac cat atg tgt gta gcc ttg ctc ago atg 432
 Tyr Ser Thr Val Met Asn His His Met Cys Val Ala Leu Leu Ser Met
 130 135 140
 gtc atg gct att gca gtc acc aat tcc tgg gtg cac aca gct ctt atc 480

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Val Met Ala Ile Ala Val Thr Asn Ser Trp Val His Thr Ala Leu Ile
145              150              155              160

atg agg ttg act ttc tgt ggg cca aac acc att gac cac ttc ttc tgt      528
Met Arg Leu Thr Phe Cys Gly Pro Asn Thr Ile Asp His Phe Phe Cys
              165              170              175

gag ata ccc cca ttg ctg gct ttg tcc tgt agc cct gta aga atc aat      576
Glu Ile Pro Leu Leu Ala Leu Ser Cys Ser Pro Val Arg Ile Asn
              180              185              190

gag gtg atg gtg tat gtt gct gat att aac ctg gcc ata ggg gac ttt      624
Glu Val Met Val Tyr Val Ala Asp Ile Thr Leu Ala Ile Gly Asp Phe
              195              200              205

att ctt acc tgc atc tcc tat ggt ttt atc att gtt gct att ctc cgt      672
Ile Leu Thr Cys Ile Ser Tyr Gly Phe Ile Ile Val Ala Ile Leu Arg
              210              215              220

atc cgc aca gta gaa ggc aag agg aag gcc ttc tca aca tgc tca tct      720
Ile Arg Thr Val Glu Gly Lys Arg Lys Ala Phe Ser Thr Cys Ser Ser
              225              230              235              240

cat ctc aca gtg gtg acc ctt tcc tat tct cct gta atc tac acc tat      768
His Leu Thr Val Val Thr Leu Tyr Tyr Ser Pro Val Ile Tyr Thr Tyr
              245              250              255

atc cgc cct gct tcc agc tat aca ttt gaa aga gac aag gtg gta gct      816
Ile Arg Pro Ala Ser Ser Tyr Thr Phe Glu Arg Asp Lys Val Val Ala
              260              265              270

gca ctc tat act ctt gtg act ccc aca tta aac ccg atg gtg tac agc      864
Ala Leu Tyr Thr Leu Val Thr Pro Thr Leu Asn Pro Met Val Tyr Ser
              275              280              285

ttc cag aat agg gag atg cag gca gga att agg aag gtg ttt gca ttt      912
Phe Gln Asn Arg Glu Met Gln Ala Gly Ile Arg Lys Val Phe Ala Phe
              290              295              300

ctg aac cac tag
Leu Lys His
305

<210> 144
<211> 307
<212> PRT
<213> Homo Sapiens

<400> 144
Met Asn His Ser Val Val Thr Glu Phe Ile Ile Leu Gly Leu Thr Lys
1              5              10              15

Lys Pro Glu Leu Gln Gly Ile Ile Phe Leu Phe Phe Leu Ile Val Tyr
20              25              30

Leu Val Ala Phe Leu Gly Asn Met Leu Ile Ile Ile Ala Lys Ile Tyr
35              40              45

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Asn Asn Thr Leu His Thr Pro Met Tyr Val Phe Leu Leu Thr Leu Ala
 50 55 60
 Val Val Asp Ile Ile Cys Thr Thr Ser Ile Ile Pro Lys Met Leu Gly
 65 70 75 80
 Thr Met Leu Thr Ser Glu Asn Thr Ile Ser Tyr Ala Gly Cys Met Ser
 85 90 95
 Glu Leu Phe Leu Phe Thr Trp Ser Leu Gly Ala Glu Met Val Leu Phe
 100 105 110
 Thr Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
 115 120 125
 Tyr Ser Thr Val Met Asn His His Met Cys Val Ala Leu Leu Ser Met
 130 135 140
 Val Met Ala Ile Ala Val Thr Asn Ser Trp Val His Thr Ala Leu Ile
 145 150 155 160
 Met Arg Leu Thr Phe Cys Gly Pro Asn Thr Ile Asp His Phe Phe Cys
 165 170 175
 Glu Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Pro Val Arg Ile Asn
 180 185 190
 Glu Val Met Val Tyr Val Ala Asp Ile Thr Leu Ala Ile Gly Asp Phe
 195 200 205
 Ile Leu Thr Cys Ile Ser Tyr Gly Phe Ile Ile Val Ala Ile Leu Arg
 210 215 220
 Ile Arg Thr Val Glu Gly Lys Arg Lys Ala Phe Ser Thr Cys Ser Ser
 225 230 235 240
 His Leu Thr Val Val Thr Leu Tyr Tyr Ser Pro Val Ile Tyr Thr Tyr
 245 250 255
 Ile Arg Pro Ala Ser Ser Tyr Thr Phe Glu Arg Asp Lys Val Val Ala
 260 265 270
 Ala Leu Tyr Thr Leu Val Thr Pro Thr Leu Asn Pro Met Val Tyr Ser
 275 280 285

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PCT/BE01/00162

Phe Gln Asn Arg Glu Met Gln Ala Gly Ile Arg Lys Val Phe Ala Phe
 290 295 300

Leu Lys His
 305

<210> 145
 <211> 948
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(945)
 <223>

<400> 145
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 Met Thr Asn Gln Thr Gln Met Met Glu Phe Leu Leu Val Arg Phe Thr
 1 5 10 15
 gag aat tgg gtg ctc ctg agg ctg cat gct ttg ctc ttc tca ctg atc 96
 Glu Asn Trp Val Leu Leu Arg Leu His Ala Leu Leu Phe Ser Leu Ile
 20 25 30
 tac ctc acc gct gtg ctg atg aat tta gtc atc att ctc ctc atg att 144
 Tyr Leu Thr Ala Val Leu Met Asn Leu Val Ile Ile Leu Leu Met Ile
 35 40 45
 ctg gac cat cgt ctc cac atg gaa atg tac ttt ttc ctc oga cat ttg 192
 Leu Asp His Arg Leu His Met Ala Met Tyr Phe Phe Leu Arg His Leu
 50 55 60
 tcc ttc tta gac ctg tgt ctc att tct gcc aca gtc ccc aaa tcc atc 240
 Ser Phe Leu Asp Leu Cys Leu Ile Ser Ala Thr Val Pro Lys Ser Ile
 65 70 75 80
 ctc aac tct gtc gcc tdc act gac tcc atc tcc ttc ctg ggg tgt gtg 288
 Leu Asn Ser Val Ala Ser Thr Asp Ser Ile Ser Phe Leu Gly Cys Val
 85 90 95
 ttg cag ctc ttc ttg gtg gta ctg ctg gct gga tca gag att gcc atc 336
 Leu Gln Leu Phe Leu Val Val Leu Leu Ala Gly Ser Glu Ile Gly Ile
 100 105 110
 ctt act gcc atg tcc tat gac cgc tat gct gcc atc tgc tgc ccc cta 384
 Leu Thr Ala Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys Cys Pro Leu
 115 120 125
 cac tgt gag gct gtc atg agc aga ggg ctc tgt gtc cag ttg atg gct 432
 His Cys Glu Ala Val Met Ser Arg Gly Leu Cys Val Gln Leu Met Ala
 130 135 140
 ctg tcc tgg ctc aac aga ggg gcc ttg gga ctc ttg tac aca gct gga 480
 Leu Ser Trp Leu Asn Arg Gly Ala Leu Gly Leu Leu Tyr Thr Ala Gly
 145 150 155 160

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PCT/BE01/00162

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aca ttc tct ctg aat ttt tat ggc tct gat gag cta cat cag ttc ttc      528
Thr Phe Ser Leu Asn Phe Tyr Gly Ser Asp Glu Leu His Gln Phe Phe
      165                      170                      175

tgc gat gtc cct gcc cta cta aag ctg act tgt tct aaa gaa cat gcc      576
Cys Asp Val Pro Ala Leu Leu Lys Leu Thr Cys Ser Lys Glu His Ala
      180                      185                      190

atc att agt gtc agt gtc gcc att ggg gtc tgt tat gca ttt tca tgt      624
Ile Ile Ser Val Ser Val Ala Ile Gly Val Cys Tyr Ala Phe Ser Cys
      195                      200                      205

tta gtt tgc att gta gtt tcc tat gtg tac att ttc tct gct gtg tta      672
Leu Val Cys Ile Val Val Ser Tyr Val Tyr Ile Phe Ser Ala Val Leu
      210                      215                      220

agg ata tca cag aga cag aga caa tcc aaa gcc ttt tcc aac tgt gtg      720
Arg Ile Ser Gln Arg Gln Arg Gln Ser Lys Ala Phe Ser Asn Cys Val
      225                      230                      235                      240

cct cac ctg att gtt gtc act gtc ttt ctt gta aca ggt gct gtt gct      768
Pro His Leu Ile Val Val Thr Val Phe Leu Val Thr Gly Ala Val Ala
      245                      250                      255

tat tta aag cca ggg tct gat gca cct tct att cta gac ttg ctg gtg      816
Tyr Leu Lys Pro Gly Ser Asp Ala Pro Ser Ile Leu Asp Leu Val
      260                      265                      270

tct gtg ttc tat tct gtc gca cct cca acc ttg aac cct gtt atc tac      864
Ser Val Phe Tyr Ser Val Ala Pro Pro Thr Leu Asn Pro Val Ile Tyr
      275                      280                      285

tgt ctg aag aac aag gac att aaa tcc gct ctg agt aaa gtc ctg tgg      912
Cys Leu Lys Asn Lys Asp Ile Lys Ser Ala Leu Ser Lys Val Leu Trp
      290                      295                      300

aat gtt aga agc agt ggg gta atg aaa gat gac taa      948
Asn Val Arg Ser Ser Gly Val Met Lys Asp Asp
      305                      310                      315

<210> 146
<211> 315
<212> PRT
<213> Homo Sapiens

<400> 146
Met Thr Asn Gln Thr Gln Met Met Glu Phe Leu Leu Val Arg Phe Thr
1      5      10      15

Glu Asn Trp Val Leu Leu Arg Leu His Ala Leu Leu Phe Ser Leu Ile
20     25     30

Tyr Leu Thr Ala Val Leu Met Asn Leu Val Ile Ile Leu Leu Met Ile
35     40     45

Leu Asp His Arg Leu His Met Ala Met Tyr Phe Phe Leu Arg His Leu

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50          55          60
Ser Phe Leu Asp Leu Cys Leu Ile Ser Ala Thr Val Pro Lys Ser Ile
65          70          75          80
Leu Asn Ser Val Ala Ser Thr Asp Ser Ile Ser Phe Leu Gly Cys Val
85          90          95
Leu Gln Leu Phe Leu Val Val Leu Leu Ala Gly Ser Glu Ile Gly Ile
100         105         110
Leu Thr Ala Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys Cys Pro Leu
115         120         125
His Cys Glu Ala Val Met Ser Arg Gly Leu Cys Val Gln Leu Met Ala
130         135         140
Leu Ser Trp Leu Asn Arg Gly Ala Leu Gly Leu Leu Tyr Thr Ala Gly
145         150         155         160
Thr Phe Ser Leu Asn Phe Tyr Gly Ser Asp Glu Leu His Gln Phe Phe
165         170         175
Cys Asp Val Pro Ala Leu Leu Lys Leu Thr Cys Ser Lys Glu His Ala
180         185         190
Ile Ile Ser Val Ser Val Ala Ile Gly Val Cys Tyr Ala Phe Ser Cys
195         200         205
Leu Val Cys Ile Val Val Ser Tyr Val Tyr Ile Phe Ser Ala Val Leu
210         215         220
Arg Ile Ser Gln Arg Gln Arg Gln Ser Lys Ala Phe Ser Asn Cys Val
225         230         235         240
Pro His Leu Ile Val Val Thr Val Phe Leu Val Thr Gly Ala Val Ala
245         250         255
Tyr Leu Lys Pro Gly Ser Asp Ala Pro Ser Ile Leu Asp Leu Leu Val
260         265         270
Ser Val Phe Tyr Ser Val Ala Pro Pro Thr Leu Asn Pro Val Ile Tyr
275         280         285
Cys Leu Lys Asn Lys Asp Ile Lys Ser Ala Leu Ser Lys Val Leu Trp
290         295         300

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Asn Val Arg Ser Ser Gly Val Met Lys Asp Asp
 305 310 315

<210> 147
 <211> 939
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(936)
 <223>

<400> 147
 atg cat caa gga aac caa acc acc atc act gaa ttc att ctc ctg gga 48
 Met His Gln Gly Asn Gln Thr Thr Ile Thr Glu Phe Ile Leu Leu Gly
 1 5 10 15
 ttt ttc aag cag gat gag cat caa aac ctc ctc ttt gtg ctt ttc ttg 96
 Phe Phe Lys Gln Asp Glu His Gln Asn Leu Leu Phe Val Leu Phe Leu
 20 25 30
 ggt atg tac ctg gtc act gtg att ggg aac ggg ctc atc att gtg gct 144
 Gly Met Tyr Leu Val Thr Val Ile Gly Asn Gly Leu Ile Ile Val Ala
 35 40 45
 atc agc ttg gat acg tac ctt cat acc ccc atg tat ctc ttc ctt gcc 192
 Ile Ser Leu Asp Thr Tyr Leu His Thr Pro Met Tyr Leu Phe Leu Ala
 50 55 60
 aat cta tcc ttt gct gat att tcc tcc att tcc aac tca gtc ccc aaa 240
 Asn Leu Ser Phe Ala Asp Ile Ser Ser Ile Ser Asn Ser Val Pro Lys
 65 70 75 80
 atg ctg gtg aat att caa acc aag agt caa tcc atc tct tat gag ago 288
 Met Leu Val Asn Ile Gln Thr Lys Ser Gln Ser Ile Ser Tyr Glu Ser
 85 90 95
 tgc atc aca cag atg tac ttt tct att gtg ttt gtc gtc att gac aat 336
 Cys Ile Thr Gln Met Tyr Phe Ser Ile Val Phe Val Val Ile Asp Asn
 100 105 110
 ttg ctc ttg ggg acc atg gcc tat gac cac ttt gtg gcg atc tgc cac 384
 Leu Leu Gly Thr Met Ala Tyr Asp His Phe Val Ala Ile Cys His
 115 120 125
 cct ctg aat tat aca att ctc atg cgg ccc agg ttc ggc att ttg ctc 432
 Pro Leu Asn Tyr Thr Ile Leu Met Arg Pro Arg Phe Gly Ile Leu Leu
 130 135 140
 aca gtc atc tca tgg ttc ctc agt aat att att gct ctg aca cac acc 480
 Thr Val Ile Ser Trp Phe Leu Ser Asn Ile Ile Ala Leu Thr His Thr
 145 150 155 160
 ctt ctg ctc att caa ttg ctc ttc tgt aac cac aac act ctc cca cac 528
 Leu Leu Leu Ile Gln Leu Leu Phe Cys Asn His Asn Thr Leu Pro His
 165 170 175

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ttc ttc tgt gac ttg gcc cct ctg ctc aaa ctg tcc tgt tca gat aca    576
Phe Phe Cys Asp Leu Ala Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr
      180                      185                      190

ttg atc aat gag ctt gtg ttg ttt att gtg ggt tta tca gtt atc atc    624
Leu Ile Asn Glu Leu Val Leu Phe Ile Val Gly Leu Ser Val Ile Ile
      195                      200                      205

ttc ccc ttt aca ctc agc ttc ttt tcc tat gtc tgc atc atc aga gct    672
Phe Pro Phe Thr Leu Ser Phe Phe Ser Tyr Val Cys Ile Ile Arg Ala
      210                      215                      220

gtc ctg aga gta tct tcc aca cag gga aag tgg aaa gcc ttc tcc act    720
Val Leu Arg Val Ser Ser Thr Gln Gly Lys Trp Lys Ala Phe Ser Thr
      225                      230                      235                      240

tgt ggc tct cac ctg aca gtt gta tta ctg ttc tac gga acc att gta    768
Cys Gly Ser His Leu Thr Val Val Leu Leu Phe Tyr Gly Thr Ile Val
      245                      250                      255

ggc gtg tac ttt ttc ccc tcc tcc act cac cct gag gac act gat aag    816
Gly Val Tyr Phe Phe Pro Ser Ser Thr His Pro Glu Asp Thr Asp Lys
      260                      265                      270

att ggt gct gtc cta ttc act gtg gtg aca ccc atg ata aac ccc ttc    864
Ile Gly Ala Val Leu Phe Thr Val Val Thr Pro Met Ile Asn Pro Phe
      275                      280                      285

atc tac agc ttg agg aat aag gat atg aaa ggt gcc ctg aga aag ctc    912
Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Arg Lys Leu
      290                      295                      300

atc aat aga aaa att tct tcc ctt tga    939
Ile Asn Arg Lys Ile Ser Ser Leu
      305                      310

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<210> 148
 <211> 312
 <212> PRT
 <213> Homo Sapiens

<400> 148

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Met His Gln Gly Asn Gln Thr Thr Ile Thr Glu Phe Ile Leu Leu Gly
1      5      10      15

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Phe Phe Lys Gln Asp Glu His Gln Asn Leu Leu Phe Val Leu Phe Leu
20     25     30

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Gly Met Tyr Leu Val Thr Val Ile Gly Asn Gly Leu Ile Ile Val Ala
35     40     45

```

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Ile Ser Leu Asp Thr Tyr Leu His Thr Pro Met Tyr Leu Phe Leu Ala
50     55     60

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Asn Leu Ser Phe Ala Asp Ile Ser Ser Ile Ser Asn Ser Val Pro Lys
 65 70 75 80
 Met Leu Val Asn Ile Gln Thr Lys Ser Gln Ser Ile Ser Tyr Glu Ser
 85 90 95
 Cys Ile Thr Gln Met Tyr Phe Ser Ile Val Phe Val Val Ile Asp Asn
 100 105 110
 Leu Leu Leu Gly Thr Met Ala Tyr Asp His Phe Val Ala Ile Cys His
 115 120 125
 Pro Leu Asn Tyr Thr Ile Leu Met Arg Pro Arg Phe Gly Ile Leu Leu
 130 135 140
 Thr Val Ile Ser Trp Phe Leu Ser Asn Ile Ile Ala Leu Thr His Thr
 145 150 155 160
 Leu Leu Leu Ile Gln Leu Leu Phe Cys Asn His Asn Thr Leu Pro His
 165 170 175
 Phe Phe Cys Asp Leu Ala Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr
 180 185 190
 Leu Ile Asn Glu Leu Val Leu Phe Ile Val Gly Leu Ser Val Ile Ile
 195 200 205
 Phe Pro Phe Thr Leu Ser Phe Phe Ser Tyr Val Cys Ile Ile Arg Ala
 210 215 220
 Val Leu Arg Val Ser Ser Thr Gln Gly Lys Trp Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Thr Val Val Leu Leu Phe Tyr Gly Thr Ile Val
 245 250 255
 Gly Val Tyr Phe Phe Pro Ser Ser Thr His Pro Glu Asp Thr Asp Lys
 260 265 270
 Ile Gly Ala Val Leu Phe Thr Val Val Thr Pro Met Ile Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Arg Lys Leu
 290 295 300
 Ile Asn Arg Lys Ile Ser Ser Leu

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305

310

<210> 149
 <211> 921
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(918)
 <223>

<400> 149
 atg gtg act gag ttt ctt ctt ctc ggc ttc tcc cac ctg gcc gac ctc 48
 Met Val Thr Glu Phe Leu Leu Leu Gly Phe Ser His Leu Ala Asp Leu
 1 5 10 15
 cag ggc ttg ctc ttc tct gtc ttt ctc act atc tac ctg ctg acc gtg 96
 Gln Gly Leu Leu Phe Ser Val Phe Leu Thr Ile Tyr Leu Leu Thr Val
 20 25 30
 gca ggc aat ttc ctc att gtg gtg ctg gtc tcc act gat gct gcc ctc 144
 Ala Gly Asn Phe Leu Ile Val Val Leu Val Ser Thr Asp Ala Ala Leu
 35 40 45
 cag tcc cct atg tac ttc ttc ctg cgc acc ctc tgg gcc ttg gag att 192
 Gln Ser Pro Met Tyr Phe Phe Leu Arg Thr Leu Ser Ala Leu Glu Ile
 50 55 60
 ggc tat acg tct gtc acg gtc ccc ctg cta ctt cac cac ctc ctt act 240
 Gly Tyr Thr Ser Val Thr Val Pro Leu Leu His His Leu Leu Thr
 65 70 75 80
 ggc cgg cgc cac atc tct cgc tct gga tgt gct ctc cag atg ttc ttc 288
 Gly Arg Arg His Ile Ser Arg Ser Gly Cys Ala Leu Gln Met Phe Phe
 85 90 95
 ttc ctc ttc ttt ggc gcc acg gag tgc tgc ctc ctg gca gcc atg gcc 336
 Phe Leu Phe Phe Gly Ala Thr Glu Cys Cys Leu Leu Ala Ala Met Ala
 100 105 110
 tat gac cgc tat gca gcc atc tgt gaa ccc ctc cgc tac cca ctg ctg 384
 Tyr Asp Arg Tyr Ala Ala Ile Cys Glu Pro Leu Arg Tyr Pro Leu Leu
 115 120 125
 ctg agc cac cgg gtg tgt cta cag cta gct ggg tgg gcg tgg gcc tgt 432
 Leu Ser His Arg Val Cys Leu Gln Leu Ala Gly Ser Ala Trp Ala Cys
 130 135 140
 ggg gtg ctg gtc ggg ctg ggc cac acc cct ttc atc ttc tct ttg ccc 480
 Gly Val Leu Val Gly Leu Gly His Thr Pro Phe Ile Phe Ser Leu Pro
 145 150 155 160
 ttc tgc ggc ccc aat acc atc cgg cag ttc ttc tgt gag atc cag cct 528
 Phe Cys Gly Pro Asn Thr Ile Pro Gln Phe Phe Cys Glu Ile Gln Pro
 165 170 175
 gtc ctg cag ctg gta tgt gga gac acc tgg ctt aat gaa ctg cag att 576
 Val Leu Gln Leu Val Cys Gly Asp Thr Ser Leu Asn Glu Leu Gln Ile

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180      185      190
atc ctg gca aca gcc ctc ctc atc ctc tgc ccc ttt ggc ctc atc ctg      624
ile leu ala thr ala leu leu ile leu cys pro phe gly leu ile leu
195      200      205

ggc tcc tac ggg cgt atc ctc gtt acc atc ttc cgg atc cca tct gtt      672
gly ser tyr gly arg ile leu val thr ile phe arg ile pro ser val
210      215      220

ggc ggc cgc cgc aag gcc ttc tcc acc tgc tcc tcc cac ctg atc gbg      720
ala gly arg arg lys ala phe ser thr cys ser ser his leu ile val
225      230      235      240

gtc tcc ctc ttc tat gcc acc gca ctc ttt atc tat att cgc cct aag      768
val ser leu phe tyr gly thr ala leu phe ile tyr ile arg pro lys
245      250      255

gcc agc tac gat cgg gcc act gac cct ctg gbg tcc ctc ttc tat gct      816
ala ser tyr asp pro ala thr asp pro leu val ser leu phe tyr ala
260      265      270

gtg gtc acc ccc atc ctc aac ccc atc atc tac agc ctg cgg aac aca      864
val val thr pro ile leu asn pro ile ile tyr ser leu arg asn thr
275      280      285

gag gtc aaa gct gcc cta aag aga acc atc cag aaa acg gtg cct atg      912
glu val lys ala ala leu lys arg thr ile gln lys thr val pro met
290      295      300

gag att tga      921
glu ile
305

<210> 150
<311> 306
<212> PRT
<213> Homo Sapiens

<400> 150
Met Val Thr Glu Phe Leu Leu Leu Gly Phe Ser His Leu Ala Asp Leu
1      5      10      15

Gln Gly Leu Leu Phe Ser Val Phe Leu Thr Ile Tyr Leu Leu Thr Val
20      25      30

Ala Gly Asn Phe Leu Ile Val Val Leu Val Ser Thr Asp Ala Ala Leu
35      40      45

Gln Ser Pro Met Tyr Phe Phe Leu Arg Thr Leu Ser Ala Leu Glu Ile
50      55      60

Gly Tyr Thr Ser Val Thr Val Pro Leu Leu Leu His His Leu Leu Thr
65      70      75      80

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Gly Arg Arg His Ile Ser Arg Ser Gly Cys Ala Leu Gln Met Phe Phe
 85 90 95
 Phe Leu Phe Phe Gly Ala Thr Glu Cys Cys Leu Leu Ala Ala Met Ala
 100 105 110
 Tyr Asp Arg Tyr Ala Ala Ile Cys Glu Pro Leu Arg Tyr Pro Leu Leu
 115 120 125
 Leu Ser His Arg Val Cys Leu Gln Leu Ala Gly Ser Ala Trp Ala Cys
 130 135 140
 Gly Val Leu Val Gly Leu Gly His Thr Pro Phe Ile Phe Ser Leu Pro
 145 150 155 160
 Phe Cys Gly Pro Asn Thr Ile Pro Gln Phe Phe Cys Glu Ile Gln Pro
 165 170 175
 Val Leu Gln Leu Val Cys Gly Asp Thr Ser Leu Asn Glu Leu Gln Ile
 180 185 190
 Ile Leu Ala Thr Ala Leu Leu Ile Leu Cys Pro Phe Gly Leu Ile Leu
 195 200 205
 Gly Ser Tyr Gly Arg Ile Leu Val Thr Ile Phe Arg Ile Pro Ser Val
 210 215 220
 Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser Ser His Leu Ile Val
 225 230 235 240
 Val Ser Leu Phe Tyr Gly Thr Ala Leu Phe Ile Tyr Ile Arg Pro Lys
 245 250 255
 Ala Ser Tyr Asp Pro Ala Thr Asp Pro Leu Val Ser Leu Phe Tyr Ala
 260 265 270
 Val Val Thr Pro Ile Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Thr
 275 280 285
 Glu Val Lys Ala Ala Leu Lys Arg Thr Ile Gln Lys Thr Val Pro Met
 290 295 300
 Glu Ile
 305

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<210> 151
 <211> 957
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(954)
 <223>

<400> 151
 atg gaa tgg gaa aac caa acc att ctg gtg gaa ttt ttt ctg aag gga 48
 Met Glu Trp Glu Asn Gln Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
 1 5 10 15
 cat tct gtt cac cca agg ctt gag tta ctc ttt ttt gtg cta atc ttc 96
 His Ser Val His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe
 20 25 30
 ata atg tat gtg gtc atc ctt ctg ggg aat ggt act ctc att tta atc 144
 Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
 35 40 45
 agc atc ttg gac cct cac ctt cac acc cct atg tac ttc ttt ctg ggg 192
 Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
 50 55 60
 aac ctc tcc ttc ttg gac atc tgc tac acc acc acc tct att ccc tcc 240
 Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ile Pro Ser
 65 70 75 80
 aca cta gtg agc ttc ctt tca gaa aga aag acc att tcc ttt tct ggc 288
 Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Phe Ser Gly
 85 90 95
 tgt gca gtg cag atg ttc ctt ggc ttg gcc atg ggg aca aca gag tgt 336
 Cys Ala Val Gln Met Phe Leu Gly Leu Ala Met Gly Thr Thr Glu Cys
 100 105 110
 gtg ctt ctg ggc atg atg gcc ttt gac cgc tat gtg gct atc tgc aac 384
 Val Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 cct ctg aga tat ccc atc atc atg agc aag aat gcc tat gta ccc atg 432
 Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asn Ala Tyr Val Pro Met
 130 135 140
 gct gtt ggg tcc tgg ttt gca ggg att gtc aac tct gca gta caa act 480
 Ala Val Gly Ser Trp Phe Ala Gly Ile Val Asn Ser Ala Val Gln Thr
 145 150 155 160
 aca ttt gta gta caa ttg cct ttc tgc agg aag aat gtc atc aat cat 528
 Thr Phe Val Val Gln Leu Pro Phe Cys Arg Lys Asn Val Ile Asn His
 165 170 175
 ttc tca tgt gaa att cta gct gtc atg aag ttg gcc tgt gct gac atc 576
 Phe Ser Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile
 180 185 190
 tca ggc aat gag ttc ctc atg ctt gtg gcc aca ata ttg ttc aca ttg 624

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Ser Gly Asn Glu Phe Leu Met Leu Val Ala Thr Ile Leu Phe Thr Leu
195                200                205

atg cca ctg ctc ttg ata gtt atc tct tac tca tta atc att tcc ago      672
Met Pro Leu Leu Leu Ile Val Ile Ser Tyr Ser Leu Ile Ile Ser Ser
310                215                220

atc ctc aag att cac tcc tct gag ggg aga agc aaa gct ttc tct acc      720
Ile Leu Lys Ile His Ser Ser Glu Gly Arg Ser Lys Ala Phe Ser Thr
225                230                235                240

tgc tca gcc cat ctg act gtg gtc ata ata ttc tat ggg acc atc cto      768
Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Leu
245                250                255

ttc atg tat atg aag ccc aag tct aaa gag aca ctt nat tca gat gac      816
Phe Met Tyr Met Lys Pro Lys Ser Lys Glu Thr Leu Asn Ser Asp Asp
260                265                270

ttg gat gct acc gac aaa att ata tcc atg ttc tat ggg gtg atg act      864
Leu Asp Ala Thr Asp Lys Ile Ile Ser Met Phe Tyr Gly Val Met Thr
275                280                285

ccc atg atg aat cct tta ntc tac agt ctt aga aac aag gat gtg aaa      912
Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
290                295                300

gag gca gta aaa cac cta ccg aac aga agg ttc ttt agc aag tga      957
Glu Ala Val Lys His Leu Pro Asn Arg Arg Phe Phe Ser Lys
305                310                315

<210> 152
<211> 318
<212> PRT
<213> Homo Sapiens

<400> 152
Met Glu Trp Glu Asn Gln Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
1          5          10          15

His Ser Val His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe
20          25          30

Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
35          40          45

Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
50          55          60

Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Thr Ser Ile Pro Ser
65          70          75          80

Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Phe Ser Gly
85          90          95

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Cys Ala Val Gln Met Phe Leu Gly Leu Ala Met Gly Thr Thr Glu Cys
 100 105 110
 Val Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asn Ala Tyr Val Pro Met
 130 135 140
 Ala Val Gly Ser Trp Phe Ala Gly Ile Val Asn Ser Ala Val Gln Thr
 145 150 155 160
 Thr Phe Val Val Gln Leu Pro Phe Cys Arg Lys Asn Val Ile Asn His
 165 170 175
 Phe Ser Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile
 180 185 190
 Ser Gly Asn Glu Phe Leu Met Leu Val Ala Thr Ile Leu Phe Thr Leu
 195 200 205
 Met Pro Leu Leu Leu Ile Val Ile Ser Tyr Ser Leu Ile Ile Ser Ser
 210 215 220
 Ile Leu Lys Ile His Ser Ser Glu Gly Arg Ser Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Leu
 245 250 255
 Phe Met Tyr Met Lys Pro Lys Ser Lys Glu Thr Leu Asn Ser Asp Asp
 260 265 270
 Leu Asp Ala Thr Asp Lys Ile Ile Ser Met Phe Tyr Gly Val Met Thr
 275 280 285
 Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
 290 295 300
 Glu Ala Val Lys His Leu Pro Asn Arg Arg Phe Phe Ser Lys
 305 310 315
 <210> 153
 <211> 954
 <212> DNA

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PCT/BE01/00162

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(951)

<223>

<400> 153

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atg caa cca tat acc aaa aac tgg acc cag gta act gaa ttt gtc atg      48
Met Gln Pro Tyr Thr Lys Asn Trp Thr Gln Val Thr Glu Phe Val Met
1      5      10      15

atg ggc ttt gct ggc atc cat gaa gca cac ctc ctc ttc ttc ata ctc      96
Met Gly Phe Ala Gly Ile His Glu Ala His Leu Leu Phe Phe Ile Leu
      20      25      30

ttc ctc acc atg tac ctg ttc acc ttg gtg gag aat ttg gcc atc att      144
Phe Leu Thr Met Tyr Leu Phe Thr Leu Val Glu Asn Leu Ala Ile Ile
      35      40      45

tta gtg gtg ggt ttg gac cac cga cta cgg aga ccc atg tat ttc ttc      192
Leu Val Val Gly Leu Asp His Arg Leu Arg Arg Pro Met Tyr Phe Phe
      50      55      60

ctg aca cac ttg tcc tgg ctt gaa atc tgg tac act tct gtt aca gtg      240
Leu Thr His Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Val Thr Val
      65      70      75      80

ccc aag atg ctg gct ggt ttt att ggg gtg gat ggt ggc aag aat atc      288
Pro Lys Met Leu Ala Gly Phe Ile Gly Val Asp Gly Gly Lys Asn Ile
      85      90      95

tct tat gct ggt tgc cta tcc cag ctc ttc atc ttc acc ttt ctt ggg      336
Ser Tyr Ala Gly Cys Leu Ser Gln Leu Phe Ile Phe Thr Phe Leu Gly
      100      105      110

gca act gag tgt ttc cta ctg gct gcc atg gcc tat gat cgt tat gtg      384
Ala Thr Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
      115      120      125

gcc att tgt atg cct ctc cac tat ggg gct ttt gtg tcc tgg ggc acc      432
Ala Ile Cys Met Pro Leu His Tyr Gly Ala Phe Val Ser Trp Gly Thr
      130      135      140

tgc atc cgt ctg gca gct gcc tgt tgg ctg gta ggt ttc ctc aca ccc      480
Cys Ile Arg Leu Ala Ala Cys Trp Leu Val Gly Phe Leu Thr Pro
      145      150      155      160

atc ttg cca atc tac ctc ttg tct cag cta aca ttt tgt ggc cca aat      528
Ile Leu Pro Ile Tyr Leu Leu Ser Gln Leu Thr Phe Cys Gly Pro Asn
      165      170      175

gtc att gac cat ttc tcc tgt gat gcc tca ccc ttg cta gcc ttg tgg      576
Val Ile Asp His Phe Ser Cys Asp Ala Ser Pro Leu Leu Ala Leu Ser
      180      185      190

tgc tca gat gtc act tgg aag gag act gtg gat ttc ctg gtg tct ctg      624
Cys Ser Asp Val Thr Trp Lys Glu Thr Val Asp Phe Leu Val Ser Leu
      195      200      205

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PCT/BE01/00162

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gct gtc cta ctg gcc tcc tct atg gtc att gct gtg tcc tat gcc aac      672
Ala Val Leu Leu Ala Ser Ser Met Val Ile Ala Val Ser Tyr Gly Asn
210                      215                      220

atc gtc tgg aca ctg ctg cac atc cgc tca gct gct gag cgc tgg aag      720
Ile Val Trp Thr Leu Leu His Ile Arg Ser Ala Ala Glu Arg Trp Lys
225                      230                      235                      240

gcc ttc tct acc tgt gca gct cac ctg act gtg gtg agc ctc ttc tat      768
Ala Phe Ser Thr Cys Ala Ala His Leu Thr Val Val Ser Leu Phe Tyr
245                      250                      255

ggc act ctt ttc ttt atg tat gtc cag acc aag gtg acc tcc tcc atc      816
Gly Thr Leu Phe Phe Met Tyr Val Gln Thr Lys Val Thr Ser Ser Ile
260                      265                      270

aac ttc aac aag gtg gta tct gtc ttc tac tct gtt gtc acg ccc atg      864
Asn Phe Asn Lys Val Val Ser Val Phe Tyr Ser Val Val Thr Pro Met
275                      280                      285

ctc aat cgt ctg atc tac agt ctt agg aac aag gaa gtg aag gga gct      912
Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala
290                      295                      300

ctg ggt cga gtc ttt tct ctc aac ttt tgg aag gga cag tga      954
Leu Gly Arg Val Phe Ser Leu Asn Phe Trp Lys Gly Gln
305                      310                      315

<210> 154
<211> 317
<212> PRT
<213> Homo Sapiens

<400> 154

Met Gln Pro Tyr Thr Lys Asn Trp Thr Gln Val Thr Glu Phe Val Met
1                      5                      10                      15

Met Gly Phe Ala Gly Ile His Glu Ala His Leu Leu Phe Phe Ile Leu
20                      25                      30

Phe Leu Thr Met Tyr Leu Phe Thr Leu Val Glu Asn Leu Ala Ile Ile
35                      40                      45

Leu Val Val Gly Leu Asp His Arg Leu Arg Arg Pro Met Tyr Phe Phe
50                      55                      60

Leu Thr His Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Val Thr Val
65                      70                      75                      80

Pro Lys Met Leu Ala Gly Phe Ile Gly Val Asp Gly Gly Lys Asn Ile
85                      90                      95

Ser Tyr Ala Gly Cys Leu Ser Gln Leu Phe Ile Phe Thr Phe Leu Gly

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100 105 110
 Ala Thr Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
 115 120 125
 Ala Ile Cys Met Pro Leu His Tyr Gly Ala Phe Val Ser Trp Gly Thr
 130 135 140
 Cys Ile Arg Leu Ala Ala Ala Cys Trp Leu Val Gly Phe Leu Thr Pro
 145 150 155 160
 Ile Leu Pro Ile Tyr Leu Leu Ser Gln Leu Thr Phe Cys Gly Pro Asn
 165 170 175
 Val Ile Asp His Phe Ser Cys Asp Ala Ser Pro Leu Leu Ala Leu Ser
 180 185 190
 Cys Ser Asp Val Thr Trp Lys Gln Thr Val Asp Phe Leu Val Ser Leu
 195 200 205
 Ala Val Leu Leu Ala Ser Ser Met Val Ile Ala Val Ser Tyr Gly Asn
 210 215 220
 Ile Val Trp Thr Leu Leu His Ile Arg Ser Ala Ala Glu Arg Trp Lys
 225 230 235 240
 Ala Phe Ser Thr Cys Ala Ala His Leu Thr Val Val Ser Leu Phe Tyr
 245 250 255
 Gly Thr Leu Phe Phe Met Tyr Val Gln Thr Lys Val Thr Ser Ser Ile
 260 265 270
 Asn Phe Asn Lys Val Val Ser Val Phe Tyr Ser Val Val Thr Pro Met
 275 280 285
 Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala
 290 295 300
 Leu Gly Arg Val Phe Ser Leu Asn Phe Trp Lys Gly Gln
 305 310 315

 <210> 155
 <211> 979
 <212> DNA
 <213> Homo Sapiens

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<220>
<221> CDS
<222> (1)..(975)
<223>

<400> 155
atg acc acc ata att ctg gaa gta gat aat cat aca gtg aca aca cgt      48
Met Thr Thr Ile Ile Leu Glu Val Asp Asn His Thr Val Thr Thr Arg
1      5      10      15

ttc att ctt ctg ggg ttt cca aca cga cca gcc ttc cag ctt ctc ttt      96
Phe Ile Leu Leu Gly Phe Pro Thr Arg Pro Ala Phe Gln Leu Leu Phe
      20      25      30

ttc tcc att ttc ctg gca acc tat ctg ctg aca ctg ctg gag aat ctt     144
Phe Ser Ile Phe Leu Ala Thr Tyr Leu Leu Thr Leu Leu Glu Asn Leu
      35      40      45

ctt atc atc tta gct atc cac agt gat ggg cag ctg cat aag ccc atg     192
Leu Ile Ile Leu Ala Ile His Ser Asp Gly Gln Leu His Lys Pro Met
      50      55      60

tac ttc ttc ttg agc cgc ctc tcc ttc ctg gag atg tgg tat gtc aca     240
Tyr Phe Phe Leu Ser His Leu Ser Phe Leu Glu Met Trp Tyr Val Thr
      65      70      75      80

gtc atc agc ccc aag atg ctt gtt gac ttc ctc agt cat gac aag agt     288
Val Ile Ser Pro Lys Met Leu Val Asp Phe Leu Ser His Asp Lys Ser
      85      90      95

att tcc ttc aat ggc tgc atg act caa ctt tac ttt ttt gtg acc ttt     336
Ile Ser Phe Asn Gly Cys Met Thr Gln Leu Tyr Phe Phe Val Thr Phe
      100      105      110

gtc tgc act gag tac atc ctt ctt gct atc atg gcc ttt gac cgc tat     384
Val Cys Thr Glu Tyr Ile Leu Leu Ala Ile Met Ala Phe Asp Arg Tyr
      115      120      125

gta gcc att tgt aat cca cta cgc tac cca gtc atc atg acc aac cag     432
Val Ala Ile Cys Asn Pro Leu Arg Tyr Pro Val Ile Met Thr Asn Gln
      130      135      140

ctc tgt ggc aca ctg gct gga gga tgc tgg ttc tgt gga ctc atg act     480
Leu Cys Gly Thr Leu Ala Gly Gly Cys Trp Phe Cys Gly Leu Met Thr
      145      150      155      160

gcc atg att aag atg gtt ttt ata gca caa ctt cac tac tgt ggc atg     528
Ala Met Ile Lys Met Val Phe Ile Ala Gln Leu His Tyr Cys Gly Met
      165      170      175

cct cag atc aat cac tac ttt tgt gat atc tct cca ctc ctt aac gtc     576
Pro Gln Ile Asn His Tyr Phe Cys Asp Ile Ser Pro Leu Leu Asn Val
      180      185      190

tcc tgt gag gat gcc tca cag gct gag atg gtg gac ttc ttc ttg gcc     624
Ser Cys Glu Asp Ala Ser Gln Ala Glu Met Val Asp Phe Phe Leu Ala
      195      200      205

ctc atg gtc att gct att cct ctt tgt gtt gtg gtg gca tcc tac gct     672
Leu Met Val Ile Ala Ile Pro Leu Cys Val Val Val Ala Ser Tyr Ala

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210 215 220
 gct atc ctt gcc acc atc ctc agg atc cct tct gct cag gcc cgc caa 720
 Ala Ile Leu Ala Thr Ile Leu Arg Ile Pro Ser Ala Gln Gly Arg Gln
 225 230 235 240
 aag gca ttc tcc acc tgt gcc tcc cac ctg acc gtc gta att ctc ttc 768
 Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Ile Leu Phe
 245 250 255
 tat tcc atg aca ctt ttc acc tat gcc cgt ccc aaa ctc atg tat gcc 816
 Tyr Ser Met Thr Leu Phe Thr Tyr Ala Arg Pro Lys Leu Met Tyr Ala
 260 265 270
 tac aat tcc aac aaa gtg gta tct gtt ctc tac act gtc att gtt cca 864
 Tyr Asn Ser Asn Lys Val Val Ser Val Leu Tyr Thr Val Ile Val Pro
 275 280 285
 ctc ctc aac ccc atc att tac tgt ctg agg aac cat gaa gta aag gca 912
 Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn His Glu Val Lys Ala
 290 295 300
 gcc ctc aga aag acc ata cat tgc aga gga agt ggg ccc cag gga aat 960
 Ala Leu Arg Lys Thr Ile His Cys Arg Gly Ser Gly Pro Gln Gly Asn
 305 310 315 320
 ggg gct ttc agt agt taa 978
 Gly Ala Phe Ser Ser
 325

 <210> 156
 <211> 325
 <212> PRT
 <213> Homo Sapiens

 <400> 156

 Met Thr Thr Ile Ile Leu Glu Val Asp Asn His Thr Val Thr Thr Arg
 1 5 10 15

 Phe Ile Leu Leu Gly Phe Pro Thr Arg Pro Ala Phe Gln Leu Leu Phe
 20 25 30

 Phe Ser Ile Phe Leu Ala Thr Tyr Leu Leu Thr Leu Leu Glu Asn Leu
 35 40 45

 Leu Ile Ile Leu Ala Ile His Ser Asp Gly Gln Leu His Lys Pro Met
 50 55 60

 Tyr Phe Phe Leu Ser His Leu Ser Phe Leu Glu Met Trp Tyr Val Thr
 65 70 75 80

 Val Ile Ser Pro Lys Met Leu Val Asp Phe Leu Ser His Asp Lys Ser
 85 90 95

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Ile Ser Phe Asn Gly Cys Met Thr Gln Leu Tyr Phe Phe Val Thr Phe
    100                      105                      110

Val Cys Thr Glu Tyr Ile Leu Leu Ala Ile Met Ala Phe Asp Arg Tyr
    115                      120                      125

Val Ala Ile Cys Asn Pro Leu Arg Tyr Pro Val Ile Met Thr Asn Gln
    130                      135                      140

Leu Cys Gly Thr Leu Ala Gly Gly Cys Trp Phe Cys Gly Leu Met Thr
    145                      150                      155                      160

Ala Met Ile Lys Met Val Phe Ile Ala Gln Leu His Tyr Cys Gly Met
    165                      170                      175

Pro Gln Ile Asn His Tyr Phe Cys Asp Ile Ser Pro Leu Leu Asn Val
    180                      185                      190

Ser Cys Glu Asp Ala Ser Gln Ala Glu Met Val Asp Phe Phe Leu Ala
    195                      200                      205

Leu Met Val Ile Ala Ile Pro Leu Cys Val Val Val Ala Ser Tyr Ala
    210                      215                      220

Ala Ile Leu Ala Thr Ile Leu Arg Ile Pro Ser Ala Gln Gly Arg Gln
    225                      230                      235                      240

Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Ile Leu Phe
    245                      250                      255

Tyr Ser Met Thr Leu Phe Thr Tyr Ala Arg Pro Lys Leu Met Tyr Ala
    260                      265                      270

Tyr Asn Ser Asn Lys Val Val Ser Val Leu Tyr Thr Val Ile Val Pro
    275                      280                      285

Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn His Glu Val Lys Ala
    290                      295                      300

Ala Leu Arg Lys Thr Ile His Cys Arg Gly Ser Gly Pro Gln Gly Asn
    305                      310                      315                      320

Gly Ala Phe Ser Ser
    325

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<210> 157
 <211> 927
 <213> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(924)
 <223>

<400> 157
 atg gtc acc gaa ttc ctg ttg ctg ggt ttt tcc agc ctt ggt gaa att 48
 Met Val Thr Glu Phe Leu Leu Leu Gly Phe Ser Ser Leu Gly Glu Ile
 1 5 10 15
 cag ctg gcc ctc ttt gta gtt ttt ctt ttt ctg tat cta gtc att ctt 96
 Gln Leu Ala Leu Phe Val Val Phe Leu Phe Leu Tyr Leu Val Ile Leu
 20 25 30
 agt gcc aat gtc acc att atc agt gtc atc cac ctg gat aaa agc ctc 144
 Ser Gly Asn Val Thr Ile Ile Ser Val Ile His Leu Asp Lys Ser Leu
 35 40 45
 cac aca cca atg tac ttc ttc ctt gcc att ctc tca aca tct gag acc 192
 His Thr Pro Met Tyr Phe Phe Leu Gly Ile Leu Ser Thr Ser Glu Thr
 50 55 60
 ttc tac acc ttt gtc att cta ccc aag atg ctc atc aat cta ctt tct 240
 Phe Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser
 65 70 75 80
 gtg gcc agg aca atc tcc ttc aac tgt tgt gct ctt caa atg ttc ttc 288
 Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe
 85 90 95
 ttc ctt ggt ttt gcc att acc aac tgc ctg cta ttg ggt gtg atg ggt 336
 Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Leu Gly Val Met Gly
 100 105 110
 tat gat cgc tat gct gcc att tgt cac cct ctg cat tac ccc act ctt 384
 Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu
 115 120 125
 atg agc tgg cag gtg tgt gga aaa ctg gca gct gcc tgt gca att ggt 432
 Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly
 130 135 140
 gcc ttc ttg gcc tct ctt aca gta gta aat tta gtt ttc agc ctc gct 480
 Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro
 145 150 155 160
 ttt tgt agc gcc aac aaa gtc aet cat tac ttc tgt gac atc tca gca 528
 Phe Cys Ser Ala Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala
 165 170 175
 gtc att ctt ctg gct tgt acc aac aca gat gtt aac gaa ttt gtg ata 576
 Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Glu Phe Val Ile
 180 185 190
 ttc att tgt gga gtt ctt gta ctt gtg gtt ccc ttt ctg ttt atc tgt 624

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Phe Ile Cys Gly Val Leu Val Leu Val Val Pro Phe Leu Phe Ile Cys
195                               200                               205

gtt tct tat ctc tgc att ctg agg act atc ctg aag att ccc tca gct      672
Val Ser Tyr Leu Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala
210                               315                               320

gag ggc aga egg aaa gcg ttt tcc acc tgc gcc tct cac ctc agt gtt      720
Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val
325                               330                               335                               340

gtt att gtt cat tat gcc tgt gct tcc ttc atc tac ctg agg cct aca      768
Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
245                               250                               255

gca aac tat gtg tcc aac aaa gac agg ctg gtg acg gtg aca tac acg      816
Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr
260                               265                               270

att gtc act cca tta cta aac ccc atg gtt tat agc ctc aga aac aag      864
Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys
275                               280                               285

gat gtc cca ctt gct atc aga aaa gtg ttg ggc aag aaa ggt tct cta      912
Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu
290                               295                               300

aaa cta tat aat tga                                          927
Lys Leu Tyr Asn
305

<310> 158
<311> 308
<312> PRT
<313> Homo Sapiens

<400> 158

Met Val Thr Glu Phe Leu Leu Leu Gly Phe Ser Ser Leu Gly Glu Ile
1                               5                               10                               15

Gln Leu Ala Leu Phe Val Val Phe Leu Phe Leu Tyr Leu Val Ile Leu
20                               25                               30

Ser Gly Asn Val Thr Ile Ile Ser Val Ile His Leu Asp Lys Ser Leu
35                               40                               45

His Thr Pro Met Tyr Phe Phe Leu Gly Ile Leu Ser Thr Ser Glu Thr
50                               55                               60

Phe Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser
65                               70                               75                               80

Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe
85                               90                               95

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PCT/BE01/00162

Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Leu Gly Val Met Gly
 100 105 110
 Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu
 115 120 125
 Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly
 130 135 140
 Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro
 145 150 155 160
 Phe Cys Ser Ala Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala
 165 170 175
 Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Glu Phe Val Ile
 180 185 190
 Phe Ile Cys Gly Val Leu Val Leu Val Val Pro Phe Leu Phe Ile Cys
 195 200 205
 Val Ser Tyr Leu Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala
 210 215 220
 Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val
 225 230 235 240
 Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
 245 250 255
 Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr
 260 265 270
 Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys
 275 280 285
 Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu
 290 295 300
 Lys Leu Tyr Asn
 305
 <210> 159
 <211> 927
 <212> DNA

WO 02/24726

PCT/BE01/00162

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(924)

<223>

<400> 159

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atg acc atg gaa aat tat tct atg gca gct cag ttt gtc tta gat ggt      48
Met Thr Met Glu Asn Tyr Ser Met Ala Ala Gln Phe Val Leu Asp Gly
1      5      10      15

tta aca cag caa gca gag ctc cag ctg ccc ctc ttc ctc ctg ttc ctg      96
Leu Thr Gln Gln Ala Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
20     25     30

gga atc tat gtg gtc aca gta gtg ggc aac ctg ggc atg att ctc ctg      144
Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly Met Ile Leu Leu
35     40     45

att gca gtc agc cct cta ctt cac acc ccc atg tcc tat ttc ctc agc      192
Ile Ala Val Ser Pro Leu Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
50     55     60

agc ttg tcc ttc gtc gat ttc tgc tat tcc tct gtc att act ccc aaa      240
Ser Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys
65     70     75     80

atg ctg gtg aac ttc cta gga aag aag aat aca atc ctt tcc tct gag      288
Met Leu Val Asn Phe Leu Gly Lys Lys Asn Thr Ile Leu Tyr Ser Glu
85     90     95

tgc atg gtc cag ctc ttt ttc ttt gtg gtc ttt gtg gtg gct gag ggt      336
Cys Met Val Gln Leu Phe Phe Phe Val Val Phe Val Val Ala Glu Gly
100    105    110

tac ctc ctg act gcc atg gca tat gat cgc tat gtt gcc atc tgt agc      384
Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser
115    120    125

cca ctg ctt tat aat gcg atc atg tcc tca tgg gtc tgc tca ctg cta      432
Pro Leu Leu Tyr Asn Ala Ile Met Ser Ser Tyr Val Cys Ser Leu Leu
130    135    140

gtg ctg gct gcc ttc ttc ttg ggc ttt ctc tct gcc ttg act cat aca      480
Val Leu Ala Ala Phe Phe Leu Gly Phe Leu Ser Ala Leu Thr His Thr
145    150    155    160

agt gcc atg atg aaa ctg tcc ttt tgc aaa tcc cac att atc aac cat      528
Ser Ala Met Met Lys Leu Ser Phe Cys Lys Ser His Ile Ile Asn His
165    170    175

tac ttc tgt gat gtt ctt ccc ctc ctc aat ctc tcc tgc tcc aac aca      576
Tyr Phe Cys Asp Val Leu Pro Leu Leu Asn Leu Ser Cys Ser Asn Thr
180    185    190

cac ctc aat gag ctt cta ctt ttt atc att gcg ggg ttt aac acc ttg      624
His Leu Asn Glu Leu Leu Leu Phe Ile Ile Ala Gly Phe Asn Thr Leu
195    200    205

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gtg ccc acc cta gct gtt gct gtc tcc tat gcc ttc atc dta tac agc      673
Val Pro Thr Leu Ala Val Ala Val Ser Tyr Ala Phe Ile Leu Tyr Ser
210                      215                      220

atc ctt cac atc cgc tcc tca gag ggc cgg tcc aaa gct ttt gga aca      720
Ile Leu His Ile Arg Ser Ser Glu Gly Arg Ser Lys Ala Phe Gly Thr
225                      230                      235                      240

tgc agc tct cat ctc atg gct gtg gtg atc ttc ttt ggg tcc att acc      768
Cys Ser Ser His Leu Met Ala Val Val Ile Phe Phe Gly Ser Ile Thr
245                      250                      255

ttc atg tat ttc aag ccc cct tca agt aac tcc ctg gac cag gag aag      816
Phe Met Tyr Phe Lys Pro Pro Ser Ser Asn Ser Leu Asp Gln Glu Lys
260                      265                      270

gtg tcc tct gtg ttc tac acc aag gtg atc ccc atg ctg aac cct tta      864
Val Ser Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu
275                      280                      285

ata tac agt ctg agg aat aag gat gtg aag aaa gca tta agg aag gtc      912
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Leu Arg Lys Val
290                      295                      300

tta gta gga aaa tga      927
Leu Val Gly Lys
305

<210> 150
<211> 308
<212> FRT
<213> Homo Sapiens

<400> 150

Met Thr Met Glu Asn Tyr Ser Met Ala Ala Gln Phe Val Leu Asp Gly
1                      5                      10                      15

Leu Thr Gln Gln Ala Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
20                      25                      30

Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly Met Ile Leu Leu
35                      40                      45

Ile Ala Val Ser Pro Leu Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
50                      55                      60

Ser Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys
65                      70                      75                      80

Met Leu Val Asn Phe Leu Gly Lys Lys Asn Thr Ile Leu Tyr Ser Glu
85                      90                      95

Cys Met Val Gln Leu Phe Phe Phe Val Val Phe Val Val Ala Glu Gly

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PCT/BE01/00162

100 105 110
 Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser
 115 120 125
 Pro Leu Leu Tyr Asn Ala Ile Met Ser Ser Trp Val Cys Ser Leu Leu
 130 135 140
 Val Leu Ala Ala Phe Phe Leu Gly Phe Leu Ser Ala Leu Thr His Thr
 145 150 155 160
 Ser Ala Met Met Lys Leu Ser Phe Cys Lys Ser His Ile Ile Asn His
 165 170 175
 Tyr Phe Cys Asp Val Leu Pro Leu Leu Asn Leu Ser Cys Ser Asn Thr
 180 185 190
 His Leu Asn Glu Leu Leu Leu Phe Ile Ile Ala Gly Phe Asn Thr Leu
 195 200 205
 Val Pro Thr Leu Ala Val Ala Val Ser Tyr Ala Phe Ile Leu Tyr Ser
 210 215 220
 Ile Leu His Ile Arg Ser Ser Glu Gly Arg Ser Lys Ala Phe Gly Thr
 225 230 235 240
 Cys Ser Ser His Leu Met Ala Val Val Ile Phe Phe Gly Ser Ile Thr
 245 250 255
 Phe Met Tyr Phe Lys Pro Pro Ser Ser Asn Ser Leu Asp Gln Glu Lys
 260 265 270
 Val Ser Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Leu Arg Lys Val
 290 295 300
 Leu Val Gly Lys
 305
 <210> 161
 <211> 915
 <212> DNA
 <213> Homo Sapiens
 <220>

WO 02/24726

PCT/BE01/00162

<221> CDS
 <222> (1)..(912)
 <223>

<400> 161
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 Met Leu Ala Arg Asn Asn Ser Leu Val Thr Glu Phe Ile Leu Ala Gly
 1 5 10 15
 tta aca gat cat coa gag ttc cag caa ccc ctc ttt ttc ctg ttt cta 96
 Leu Thr Asp His Pro Glu Phe Gln Gln Pro Leu Phe Phe Leu Phe Leu
 20 25 30
 gtg gtc tac att gtc acc atg gta ggc aac ctt ggc ttg atc att ctt 144
 Val Val Tyr Ile Val Thr Met Val Gly Asn Leu Gly Leu Ile Ile Leu
 35 40 45
 ttc ggt cta aat tct cac ctc cac aca cca atg tac tat ttc ctc ttc 192
 Phe Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe
 50 55 60
 aal ctc tcc ttc att gat ctc tgt tac tcc tct gtt ttc act ccc aaa 240
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys
 65 70 75 80
 atg cta atg aac ttt gta tca aaa aag aat att atc tcc tat gtt ggg 288
 Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile Ile Ser Tyr Val Gly
 85 90 95
 tgc atg act cag ctg ttt ttc ttt ctc ttt ttt gtc atc tct gaa tgt 336
 Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe Val Ile Ser Glu Cys
 100 105 110
 tac atg ttg acc tca atg gca tat gat cgc tat glg gcc atc tgt aat 384
 Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 cca ttg ctg tat aag gtc acc atg tcc cat cag gtc tgt tct atg ctc 432
 Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln Val Cys Ser Met Leu
 130 135 140
 act ttt gct gct tac ata atg gga ttg gct gga gcc aag gcc cac acc 480
 Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly Ala Thr Ala His Thr
 145 150 155 160
 ggg tgc atg ctt aga ctc acc ttc tgc agt gct aat atc atc aac cat 528
 Gly Cys Met Leu Arg Leu Thr Phe Cys Ser Ala Asn Ile Ile Asn His
 165 170 175
 tac ttg tgt gac ata ctc ccc ctc ctc cag ctt tcc tgc acc agc acc 576
 Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr
 180 185 190
 tat gtc aac gag gtg gtt gtt ctc att gtt gtg ggt att aat atc atg 624
 Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Ile Asn Ile Met
 195 200 205
 gta ccc agt tgt acc atc ctc att tct tat gtt ttc att gtc act agc 672
 Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val Phe Ile Val Thr Ser
 210 215 220

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PCT/BE01/00162

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att ctt cat atc aaa tcc act caa gga aga tca aaa gcc ttc agt act      720
ile leu his ile lys ser thr gln gly arg ser lys ala phe ser thr      225
225      230      235      240

tgt agc tot cat gtc att gct ctg tot ctg ttt ttt ggg tca gcg gca      768
cys ser ser his val ile ala leu ser leu phe phe gly ser ala ala      245
245      250      255

ttc atg tat att aaa tat tot tct gga tot atg gag cag gga aaa gtt      816
phe met tyr ile lys tyr ser ser gly ser met glu gln gly lys val      260
260      265      270

tct tct gtt ttc tac act aat gtg gtg ccc atg ctc aat cct ctc atc      854
ser ser val phe tyr thr asn val val pro met leu asn pro leu ile      275
275      280      285

tac agt ttg agg aac aag gat gtc aaa gtt gca ctg agg aaa gct ctg      912
tyr ser leu arg asn lys asp val lys val ala leu arg lys ala leu      290
290      295      300

att      915

<210> 162
<211> 304
<212> FRT
<213> Homo Sapiens

<400> 162
Met Leu Ala Arg Asn Asn Ser Leu Val Thr Glu Phe Ile Leu Ala Gly
1      5      10      15

Leu Thr Asp His Pro Glu Phe Gln Gln Pro Leu Phe Phe Leu Phe Leu
20      25      30

Val Val Tyr Ile Val Thr Met Val Gly Asn Leu Gly Leu Ile Ile Leu
35      40      45

Phe Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe
50      55      60

Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys
65      70      75      80

Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile Ile Ser Tyr Val Gly
85      90      95

Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe Val Ile Ser Glu Cys
100      105      110

Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115      120      125

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Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln Val Cys Ser Met Leu
 130 135 140

Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly Ala Thr Ala His Thr
 145 150 155 160

Gly Cys Met Leu Arg Leu Thr Phe Cys Ser Ala Asn Ile Ile Asn His
 165 170 175

Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr
 180 185 190

Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Ile Asn Ile Met
 195 200 205

Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val Phe Ile Val Thr Ser
 210 215 220

Ile Leu His Ile Lys Ser Thr Gln Gly Arg Ser Lys Ala Phe Ser Thr
 225 230 235 240

Cys Ser Ser His Val Ile Ala Leu Ser Leu Phe Phe Gly Ser Ala Ala
 245 250 255

Phe Met Tyr Ile Lys Tyr Ser Ser Gly Ser Met Gln Gln Gly Lys Val
 260 265 270

Ser Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Leu Ile
 275 280 285

Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Lys Ala Leu
 290 295 300

<210> 163
 <211> 942
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(939)
 <223>

<400> 163
 atg ctg gct aga aac aac tcc tta gtg act gaa ttt att ctt gct gga 43
 Met Leu Ala Arg Asn Asn Ser Leu Val Thr Glu Phe Ile Leu Ala Gly
 1 5 10 15

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tta aca gat cat cca gag ttc cgg caa ccc ctc ttt ttc ctg ttt cta Leu Thr Asp His Pro Glu Phe Arg Gln Pro Leu Phe Phe Leu Phe Leu	96
20 25 30	
gtg atc tac att gtc acc atg gta ggc aac ctt ggc ttg atc act ctt Val Ile Tyr Ile Val Thr Met Val Gly Asn Leu Gly Leu Ile Thr Leu	144
35 40 45	
ttc ggt cta aat tct cac ctc cac aca cca atg tac tat ttc ctc ttc Phe Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe	192
50 55 60	
aat ctc tcc ttc att gat ctc tgt tac tcc tct gtt ttc act ccc aaa Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys	240
65 70 75 80	
atg cta atg aac ttt gtc tca aaa aag aat att atc tcc aat gtt ggg Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile Ile Ser Asn Val Gly	288
85 90 95	
tgc atg act cgg ctg ttt ttc ttt ctc ttt ttc gtc atc tct gaa tgt Cys Met Thr Arg Leu Phe Phe Phe Leu Phe Phe Val Ile Ser Glu Cys	336
100 105 110	
tac atg ttg act tca atg gca tat gat cgc tat gtg gcc atc tgt aat Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn	384
115 120 125	
cca ttg ctg tat aag gtc acc atg tcc cat cag gtc tgt tct atg ctc Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln Val Cys Ser Met Leu	432
130 135 140	
act ttt gct gct tac ata atg gga ttg gct gga gcc acg gcc cac acc Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly Ala Thr Ala His Thr	480
145 150 155 160	
ggg tgc atg ctt aga ctc acc ttc tgc agt gct aat atc atc aac cat Gly Cys Met Leu Arg Leu Thr Phe Cys Ser Ala Asn Ile Ile Asn His	528
165 170 175	
tac ttg tgt gac ata ctc ccc ctc ctc cag ctt tcc tgc acc agc acc Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr	576
180 185 190	
tat gtc aac gag gtg gtt gtt ctc att gtt gtg ggt act aat atc acg Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Thr Asn Ile Thr	624
195 200 205	
gta ccc agt tgt acc atc ctc att tct tat gtt ttc att gtc act agc Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val Phe Ile Val Thr Ser	672
210 215 220	
att ctt cat atc aaa tcc act caa gga aga tca aaa gcc ttc agt act Ile Leu His Ile Lys Ser Thr Gln Gly Arg Ser Lys Ala Phe Ser Thr	720
225 230 235 240	
tgt ago tct cat gtc att gct ctg tct ctg ttt ttt ggg tca gcg gca Cys Ser Ser His Val Ile Ala Leu Ser Leu Phe Phe Gly Ser Ala Ala	768
245 250 255	

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ttc atg tat att aaa tat tct tct gga tct atg gag cag gga aaa gtt      816
Phe Met Tyr Ile Lys Tyr Ser Ser Gly Ser Met Glu Gln Gly Lys Val
      260      265      270

tct tct gtt ttc tac act aat gtg gtg ccc atg ctg aat ccc ctg atc      864
Ser Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Leu Ile
      275      280      285

tac agt ttg agg aac aag gat gtc aaa gtt gca ctg agg aaa gct ctg      912
Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Lys Ala Leu
      290      295      300

att aaa att cag agg aga aat ata ttc taa      942
Ile Lys Ile Gln Arg Arg Asn Ile Phe
305      310

<210> 164
<211> 313
<212> FRT
<213> Homo Sapiens

<400> 164

Met Leu Ala Arg Asn Asn Ser Leu Val Thr Glu Phe Ile Leu Ala Gly
1      5      10      15

Leu Thr Asp His Pro Glu Phe Arg Gln Pro Leu Phe Phe Leu Phe Leu
20      25      30

Val Ile Tyr Ile Val Thr Met Val Gly Asn Leu Gly Leu Ile Thr Leu
35      40      45

Phe Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe
50      55      60

Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys
65      70      75      80

Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile Ile Ser Asn Val Gly
85      90      95

Cys Met Thr Arg Leu Phe Phe Phe Leu Phe Phe Val Ile Ser Glu Cys
100      105      110

Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115      120      125

Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln Val Cys Ser Met Leu
130      135      140

Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly Ala Thr Ala His Thr

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145              150              155              160
Gly Cys Met Leu Arg Leu Thr Phe Cys Ser Ala Asn Ile Ile Asn His
      165              170              175
Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr
      180              185              190
Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Thr Asn Ile Thr
      195              200              205
Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val Phe Ile Val Thr Ser
      210              215              220
Ile Leu His Ile Lys Ser Thr Gln Gly Arg Ser Lys Ala Phe Ser Thr
      225              230              235              240
Cys Ser Ser His Val Ile Ala Leu Ser Leu Phe Phe Gly Ser Ala Ala
      245              250              255
Phe Met Tyr Ile Lys Tyr Ser Ser Gly Ser Met Glu Gln Gly Lys Val
      260              265              270
Ser Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Leu Ile
      275              280              285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Lys Ala Leu
      290              295              300
Ile Lys Ile Gln Arg Arg Asn Ile Phe
305              310

<210> 165
<211> 930
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(927)
<223>

<400> 165
atg act ctg aga aac agc tcc tca gtg act gag ttt atc ctt gtg gga      48
Met Thr Leu Arg Asn Ser Ser Ser Val Thr Glu Phe Ile Leu Val Gly
1              5              10              15
tta tca gaa cag cca gag ctc cag ctc cct ctt ttc ctt cta ttc tta      96
Leu Ser Glu Gln Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu

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	20	25	30	
ggg atc tat gtg ttc act gtg gtg ggc aac ttg ggc ttg atc acc tta				144
Gly Ile Tyr Val Phe Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu				
	35	40	45	
att ggg ata aat cct agc ctt cac acc ccc atg tac ttt ttc ctc ttc				192
Ile Gly Ile Asn Pro Ser Leu His Thr Pro Met Tyr Phe Phe Leu Phe				
	50	55	60	
aac ttg tcc ttt ata gat ctc tgt tat tcc tgt gtg ttt acc ccc aaa				240
Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Cys Val Phe Thr Pro Lys				
	65	70	75	80
atg ctg aat gac ttt gtt tca gaa agt atc atc tct tat gtg gga tgt				288
Met Leu Asn Asp Phe Val Ser Glu Ser Ile Ile Ser Tyr Val Gly Cys				
	85	90	95	
atg act cag cta ttt ttc ttc tgt ttc ttt gtc aat tct gag tgc tat				336
Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Asn Ser Glu Cys Tyr				
	100	105	110	
gtg ttg gta tca atg gcc tat gat cgc tat gtg gcc atc tgc aac ccc				384
Val Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro				
	115	120	125	
ctg ctc tcc atg gtc acc atg tcc cca agg gtc tgc ttt ctg ctg atg				432
Leu Leu Tyr Met Val Thr Met Ser Pro Arg Val Cys Phe Leu Leu Met				
	130	135	140	
ttt ggt tcc tat gtg gta ggg ttt gct ggg gcc atg gcc cac act gga				480
Phe Gly Ser Tyr Val Val Gly Phe Ala Gly Ala Met Ala His Thr Gly				
	145	150	155	160
agc atg ctg cga ctg acc ttc tgt gat tcc aac gtc att gac cat tat				528
Ser Met Leu Arg Leu Thr Phe Cys Asp Ser Asn Val Ile Asp His Tyr				
	165	170	175	
ctg tgt gac gtt ctc ccc ctc ttg cag ctc tcc tgc acc agc acc cat				576
Leu Cys Asp Val Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr His				
	180	185	190	
gtc agt gag ctg gta ttt ttc att gtt gtt gga gta atc acc atg cta				624
Val Ser Glu Leu Val Phe Phe Ile Val Val Gly Val Ile Thr Met Leu				
	195	200	205	
tcc agc ata agc atc gtc atc tct tac gct ttg ata ctc tcc aac atc				672
Ser Ser Ile Ser Ile Val Ile Ser Tyr Ala Leu Ile Leu Ser Asn Ile				
	210	215	220	
ctc tgt att cct tct gca gag ggc aga tcc aaa gcc ttt agc aca tgg				720
Leu Cys Ile Pro Ser Ala Glu Gly Arg Ser Lys Ala Phe Ser Thr Trp				
	225	230	235	240
ggc tcc cac ata att gct gtt gct ctg ttt ttt ggg tca ggg aca ttc				768
Gly Ser His Ile Ile Ala Val Ala Leu Phe Phe Gly Ser Gly Thr Phe				
	245	250	255	
acc tac tta aca aca tot ttt cct ggc tct atg aac cat ggc aga ttt				816
Thr Tyr Leu Thr Thr Ser Phe Pro Gly Ser Met Asn His Gly Arg Phe				
	260	265	270	

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gac tca gtc ttt tac acc aat gtg gtt ccc atg ctt aac cct tgg atc      864
Ala Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Ser Ile
      275      280      285

tac agt ttg agg aat aag gat gat aaa ctt ggc ctg ggc aaa acc ctg      912
Tyr Ser Leu Arg Asn Lys Asp Asp Lys Leu Ala Leu Gly Lys Thr Leu
      290      295      300

aag aga gtg ctc ttc taa      930
Lys Arg Val Leu Phe
305

<210> 166
<211> 309
<212> PRT
<213> Homo Sapiens

<400> 166
Met Thr Leu Arg Asn Ser Ser Ser Val Thr Glu Phe Ile Leu Val Gly
1      5      10      15

Leu Ser Glu Gln Pro Glu Leu Gln Leu Pro Leu Phe Leu Phe Leu
20      25      30

Gly Ile Tyr Val Phe Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu
35      40      45

Ile Gly Ile Asn Pro Ser Leu His Thr Pro Met Tyr Phe Phe Leu Phe
50      55      60

Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Cys Val Phe Thr Pro Lys
65      70      75      80

Met Leu Asn Asp Phe Val Ser Glu Ser Ile Ile Ser Tyr Val Gly Cys
85      90      95

Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Asn Ser Glu Cys Tyr
100      105      110

Val Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
115      120      125

Leu Leu Tyr Met Val Thr Met Ser Pro Arg Val Cys Phe Leu Leu Met
130      135      140

Phe Gly Ser Tyr Val Val Gly Phe Ala Gly Ala Met Ala His Thr Gly
145      150      155      160

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Ser Met Leu Arg Leu Thr Phe Cys Asp Ser Asn Val Ile Asp His Tyr
165 170 175

Leu Cys Asp Val Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr His
180 185 190

Val Ser Glu Leu Val Phe Phe Ile Val Val Gly Val Ile Thr Met Leu
195 200 205

Ser Ser Ile Ser Ile Val Ile Ser Tyr Ala Leu Ile Leu Ser Asn Ile
210 215 220

Leu Cys Ile Pro Ser Ala Glu Gly Arg Ser Lys Ala Phe Ser Thr Trp
225 230 235 240

Gly Ser His Ile Ile Ala Val Ala Leu Phe Phe Gly Ser Gly Thr Phe
245 250 255

Thr Tyr Leu Thr Thr Ser Phe Pro Gly Ser Met Asn His Gly Arg Phe
260 265 270

Ala Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Ser Ile
275 280 285

Tyr Ser Leu Arg Asn Lys Asp Asp Lys Leu Ala Leu Gly Lys Thr Leu
290 295 300

Lys Arg Val Leu Phe
305

<210> 167
<211> 969
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(966)
<223>

<400> 167
atg agc cct gag aac cag agc agc gtg tcc gag ttc ctc ctc ctg ggc 48
Met Ser Pro Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Leu Gly
1 5 10 15
ctc ccc atc cgg coa gag cag cag gcc gtg ttc ttc gcc ctg ttc ctg 96
Leu Pro ile Arg Pro Glu Gln Gln Ala Val Phe Phe Ala Leu Phe Leu
20 25 30
ggc atg tac ctg acc acg gtg ctg ggg aac ctg ctc atc atg ctg ctc 144

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Gly Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Met Leu Leu
  35          40          45
atc cag cta gac tct cac ctt cac acc ccc atg tac ttc ttc ctt agc   192
Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
  50          55          60
cac ttg gcc ctc act gac atc tcc ttt tca tct gtc act gtc cct aag   240
His Leu Ala Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys
  65          70          75          80
atg ctg atg aac atg cag act cag cac cta gcc gtc ttt tac aag gga   288
Met Leu Met Asn Met Gln Thr Gln His Leu Ala Val Phe Tyr Lys Gly
  85          90          95
tgc att tca cag aca tat ttt ttc ata ttt ttt gct gac tta gac agt   336
Cys Ile Ser Gln Thr Tyr Phe Phe Ile Phe Phe Ala Asp Leu Asp Ser
 100         105         110
ttc ctt atc act tca atg gca tat gac agg tat gtg gcc atc tgt cat   384
Phe Leu Ile Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115         120         125
cct cta cat tat gcc acc atc atg act cag agc cag tgt gtc atg ctg   432
Pro Leu His Tyr Ala Thr Ile Met Thr Gln Ser Gln Cys Val Met Leu
 130         135         140
gtg gct ggg tcc tgg gtc atc gct tgt gcg tgt gct ctt ttg cat acc   480
Val Ala Gly Ser Trp Val Ile Ala Cys Ala Cys Ala Leu Leu His Thr
 145         150         155         160
ctc ctc ctg gcc cag ctt tcc ttc tgt gct gac cac atc atc cct cac   528
Leu Leu Leu Ala Gln Leu Ser Phe Cys Ala Asp His Ile Ile Pro His
 165         170         175
tac ttc tgt gac ctt ggt gcc ctg ctc aag ttg tcc tgc tca gac acc   576
Tyr Phe Cys Asp Leu Gly Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr
 180         185         190
tcc ctc aat cag tta gca atc ttt aca gca gca ttg aca gcc att atg   624
Ser Leu Asn Gln Leu Ala Ile Phe Thr Ala Ala Leu Thr Ala Ile Met
 195         200         205
ctt cca ttc ctg tgc atc ctg gtt tot tat ggt cac att ggg gtc acc   672
Leu Pro Phe Leu Cys Ile Leu Val Ser Tyr Gly His Ile Gly Val Thr
 210         215         220
atc ctc cag att ccc tct acc aag ggc ata tgc aaa gcc ttg tcc act   720
Ile Leu Gln Ile Pro Ser Thr Lys Gly Ile Cys Lys Ala Leu Ser Thr
 225         230         235         240
tgt gga tcc cac ctc tca gtg gtg act atc tat tat cgg aca att att   768
Cys Gly Ser His Leu Ser Val Val Thr Ile Tyr Tyr Arg Thr Ile Ile
 245         250         255
ggc ctc tat ttt ctt ccc cca tcc agc aac acc aat gac aag aac ata   816
Gly Leu Tyr Phe Leu Pro Pro Ser Ser Asn Thr Asn Asp Lys Asn Ile
 260         265         270
att gct tca gtg ata tac aca gca gtc act ccc atg ttg aac cca ttc   864
Ile Ala Ser Val Ile Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe

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      275              280              285
att tac agt ctg aga aat aaa gac att aag gga gcc cta aga aaa ctc   912
ile tyr ser leu arg asn lys asp ile lys gly ala leu arg lys leu
290              295              300

ttg agt agg tca ggc gca gtg gct cat gcc tgt aat ctc agc act ttg   960
leu ser arg ser gly ala val ala his ala cys asn leu ser thr leu
305              310              315              320

ggg ggc tga   969
gly gly

<210> 168
<211> 322
<212> PRT
<213> Homo Sapiens

<400> 168
Met Ser Pro Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Leu Gly
1              5              10              15

Leu Pro Ile Arg Pro Glu Gln Gln Ala Val Phe Phe Ala Leu Phe Leu
20              25              30

Gly Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Met Leu Leu
35              40              45

Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50              55              60

His Leu Ala Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys
65              70              75              80

Met Leu Met Asn Met Gln Thr Gln His Leu Ala Val Phe Tyr Lys Gly
85              90              95

Cys Ile Ser Gln Thr Tyr Phe Phe Ile Phe Phe Ala Asp Leu Asp Ser
100             105             110

Phe Leu Ile Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
115             120             125

Pro Leu His Tyr Ala Thr Ile Met Thr Gln Ser Gln Cys Val Met Leu
130             135             140

Val Ala Gly Ser Thr Val Ile Ala Cys Ala Cys Ala Leu Leu His Thr
145             150             155             160

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Leu Leu Leu Ala Gln Leu Ser Phe Cys Ala Asp His Ile Ile Pro His
 165 170 175

Tyr Phe Cys Asp Leu Gly Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr
 180 185 190

Ser Leu Asn Gln Leu Ala Ile Phe Thr Ala Ala Leu Thr Ala Ile Met
 195 200 205

Leu Pro Phe Leu Cys Ile Leu Val Ser Tyr Gly His Ile Gly Val Thr
 210 215 220

Ile Leu Gln Ile Pro Ser Thr Lys Gly Ile Cys Lys Ala Leu Ser Thr
 225 230 235 240

Cys Gly Ser His Leu Ser Val Val Thr Ile Tyr Tyr Arg Thr Ile Ile
 245 250 255

Gly Leu Tyr Phe Leu Pro Pro Ser Ser Asn Thr Asn Asp Lys Asn Ile
 260 265 270

Ile Ala Ser Val Ile Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe
 275 280 285

Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Arg Lys Leu
 290 295 300

Leu Ser Arg Ser Gly Ala Val Ala His Ala Cys Asn Leu Ser Thr Leu
 305 310 315 320

Gly Gly

<210> 169
 <211> 972
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1) .. (969)
 <223>

<400> 169
 atg tgg cag aag aat cag acc tct ctg gca gac ttc atc ctt gag ggg 48
 Met Trp Gln Lys Asn Gln Thr Ser Leu Ala Asp Phe Ile Leu Glu Gly
 1 5 10 15

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PCT/BE01/00162

ctc ttc gat gac tcc ctt acc cac ctt ttc ctt ttc tcc ttg acc atg Leu Phe Asp Asp Ser Leu Thr His Leu Phe Leu Phe Ser Leu Thr Met 20 25 30	96
gtg gtc ttc ctt att gcg gtg agt ggc aac acc ctc acc att ctc ctc Val Val Phe Leu Ile Ala Val Ser Gly Asn Thr Leu Thr Ile Leu Leu 35 40 45	144
atc tgc att gat ccc cag ctt cat aca cca atg tat ttc ctg ctc agc Ile Cys Ile Asp Pro Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser 50 55 60	192
cag ctc tcc ctc atg gat ctg atg cat gtc tcc aca atc atc ctg aag Gln Leu Ser Leu Met Asp Leu Met His Val Ser Thr Ile Ile Leu Lys 65 70 75 80	240
atg gct acc aac tac cta tot ggc aag aaa tot atc tcc ttt gtg ggc Met Ala Thr Asn Tyr Leu Ser Gly Lys Lys Ser Ile Ser Phe Val Gly 85 90 95	288
tgt gca acc cag cac ttc ctc tat ttg tgt cta ggt ggt gct gaa tgt Cys Ala Thr Gln His Phe Leu Tyr Leu Cys Leu Gly Gly Ala Glu Cys 100 105 110	336
ttt ctc tta gct gtc atg tcc tat gac cgc tat gtt gcc atc tgt cat Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His 115 120 125	384
cca ctg cgc tat gct gtg ctc atg aac aag aag gtc gga ctg atg atg Pro Leu Arg Tyr Ala Val Leu Met Asn Lys Lys Val Gly Leu Met Met 130 135 140	432
gct gtc atg tca tgg ttg ggg gca tcc gtg aac tcc cta att ccc atg Ala Val Met Ser Trp Leu Gly Ala Ser Val Asn Ser Leu Ile His Met 145 150 155	480
gcg atc ttg atg cac ttc cct ttc tgt ggg cct cgg aaa gtc tac cac Ala Ile Leu Met His Phe Pro Phe Cys Gly Pro Arg Lys Val Tyr His 160 165 170 175	528
ttc tac tgt gag ttc cca gct gtt gtg aag ttg gta tgt ggc gac atc Phe Tyr Cys Glu Phe Pro Ala Val Val Lys Leu Val Cys Gly Asp Ile 180 185 190	576
act gtg tat gag acc aca gtg tac atc agc agc att ctc ctc ctc ctc Thr Val Tyr Glu Thr Thr Val Tyr Ile Ser Ser Ile Leu Leu Leu Leu 195 200 205	624
ccc atc ttc ctg att tot aca tcc tat gtc ttc atc ott caa agt gtc Pro Ile Phe Leu Ile Ser Thr Ser Tyr Val Phe Ile Leu Gln Ser Val 210 215 220	672
att cag atg cgc tca tot ggg agc aag aga aat gcc ttt gcc act tgt Ile Gln Met Arg Ser Ser Gly Ser Lys Arg Asn Ala Phe Ala Thr Cys 225 230 235 240	720
ggc tcc cac ctc acg gtg gtt tot ctt tgg ttt ggt gcc tgc atc ttc Gly Ser His Leu Thr Val Val Ser Leu Trp Phe Gly Ala Cys Ile Phe 245 250 255	768
tcc tac atg aga ccc agg tcc cag tgc act cta ttg cag aac aaa gtt	816

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Ser Tyr Met Arg Pro Arg Ser Gln Cys Thr Leu Leu Gln Asn Lys Val
260                               265                               270

ggg tot gtg ttc tac agc atc att acg ccc aca ttg aat tct ctg att      864
Gly Ser Val Phe Tyr Ser Ile Ile Thr Pro Thr Leu Asn Ser Leu Ile
275                               280                               285

tat act ctc cgg aat aaa gat gta gct aag gct ctg aga aga gtg ctg      912
Tyr Thr Leu Arg Asn Lys Asp Val Ala Lys Ala Leu Arg Arg Val Leu
290                               295                               300

agg aga gat gtt atc acc cag tgc att caa cga ctg caa ttg tgg ttg      960
Arg Arg Asp Val Ile Thr Gln Cys Ile Gln Arg Leu Gln Leu Trp Leu
305                               310                               315                               320

ccc cga gtg tag      972
Pro Arg Val

<210> 170
<211> 323
<212> PRT
<213> Homo Sapiens

<400> 170

Met Trp Gln Lys Asn Gln Thr Ser Leu Ala Asp Phe Ile Leu Gln Gly
1                               5                               10                               15

Leu Phe Asp Asp Ser Leu Thr His Leu Phe Leu Phe Ser Leu Thr Met
20                               25                               30

Val Val Phe Leu Ile Ala Val Ser Gly Asn Thr Leu Thr Ile Leu Leu
35                               40                               45

Ile Cys Ile Asp Pro Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser
50                               55                               60

Gln Leu Ser Leu Met Asp Leu Met His Val Ser Thr Ile Ile Leu Lys
65                               70                               75                               80

Met Ala Thr Asn Tyr Leu Ser Gly Lys Lys Ser Ile Ser Phe Val Gly
85                               90                               95

Cys Ala Thr Gln His Phe Leu Tyr Leu Cys Leu Gly Gly Ala Glu Cys
100                              105                              110

Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His
115                              120                              125

Pro Leu Arg Tyr Ala Val Leu Met Asn Lys Lys Val Gly Leu Met Met
130                              135                              140

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Ala Val Met Ser Trp Leu Gly Ala Ser Val Asn Ser Leu Ile His Met
145 150 155 160

Ala Ile Leu Met His Phe Pro Phe Cys Gly Pro Arg Lys Val Tyr His
165 170 175

Phe Tyr Cys Gln Phe Pro Ala Val Val Lys Leu Val Cys Gly Asp Ile
180 185 190

Thr Val Tyr Gln Thr Thr Val Tyr Ile Ser Ser Ile Leu Leu Leu Leu
195 200 205

Pro Ile Phe Leu Ile Ser Thr Ser Tyr Val Phe Ile Leu Gln Ser Val
210 215 220

Ile Gln Met Arg Ser Ser Gly Ser Lys Arg Asn Ala Phe Ala Thr Cys
225 230 235 240

Gly Ser His Leu Thr Val Val Ser Leu Trp Phe Gly Ala Cys Ile Phe
245 250 255

Ser Tyr Met Arg Pro Arg Ser Gln Cys Thr Leu Leu Gln Asn Lys Val
260 265 270

Gly Ser Val Phe Tyr Ser Ile Ile Thr Pro Thr Leu Asn Ser Leu Ile
275 280 285

Tyr Thr Leu Arg Asn Lys Asp Val Ala Lys Ala Leu Arg Arg Val Leu
290 295 300

Arg Arg Asp Val Ile Thr Gln Cys Ile Gln Arg Leu Gln Leu Trp Leu
305 310 315 320

Pro Arg Val

<210> 171
<211> 939
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(936)
<223>

WO 02/24726

PCT/BE01/00162

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<400> 171
atg gaa gtg gga aat tgc acc atc ctg act gaa ttc atc ttg ttg ggt      48
Met Glu Val Gly Asn Cys Thr Ile Leu Thr Glu Phe Ile Leu Leu Gly
1      5      10      15

ttc tca gca gat tcc cag tgg cag cgg att cta ttt gga gtg ttt ctg      96
Phe Ser Ala Asp Ser Gln Trp Gln Pro Ile Leu Phe Gly Val Phe Leu
20     25     30

atg ctc tat ttg ata acc ttg tca gga aac atg acc ttg gtt atc tta     144
Met Leu Tyr Leu Ile Thr Leu Ser Gly Asn Met Thr Leu Val Ile Leu
35     40     45

atc cga aat gat tcc cac ttg cat acc oot atg tac ttt ttc att ggc     192
Ile Arg Thr Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Ile Gly
50     55     60

aat ctg tct ttt ttg gat ttc tgg tat acc tct gtg tat acc ccc aaa     240
Asn Leu Ser Phe Leu Asp Phe Trp Tyr Thr Ser Val Tyr Thr Pro Lys
65     70     75     80

atc ctg gcc agt tgt gtc tca gaa gat aag cgc att tcc ttg gct gga     288
Ile Leu Ala Ser Cys Val Ser Glu Asp Lys Arg Ile Ser Leu Ala Gly
85     90     95

tgt ggg gct cag ctg ttt ttt tcc tgt gtt gta gcc tac act gaa tgc     336
Cys Gly Ala Gln Leu Phe Phe Ser Cys Val Val Ala Tyr Thr Glu Cys
100    105    110

tat ctc ctg gca gcc atg gca tat gac cgc cat gca gca att tgt aac     384
Tyr Leu Leu Ala Ala Met Ala Tyr Asp Arg His Ala Ala Ile Cys Asn
115    120    125

cca ttg ctt tat tca ggt acc atg tcc acc gcc ctc tgt act ggg ctt     432
Pro Leu Leu Tyr Ser Gly Thr Met Ser Thr Ala Leu Cys Thr Gly Leu
130    135    140

gtt gct ggc tcc tac ata gga gga ttt ttg aat gcc ata gcc cat act     480
Val Ala Gly Ser Tyr Ile Gly Gly Phe Leu Asn Ala Ile Ala His Thr
145    150    155    160

gcc aat aca ttc cgc ctg cat ttt tgt ggt aaa aat atc att gac cac     528
Ala Asn Thr Phe Arg Leu His Phe Cys Gly Lys Asn Ile Ile Asp His
165    170    175

ttt ttc tgt gat gca cca cca ttg gta aaa atg tcc tgt aca aac acc     576
Phe Phe Cys Asp Ala Pro Pro Leu Val Lys Met Ser Cys Thr Asn Thr
180    185    190

agg gtc tac gaa aaa gtc ctg ctt ggt gtg gtg ggc ttc aca gta ctc     624
Arg Val Tyr Glu Lys Val Leu Leu Gly Val Val Gly Phe Thr Val Leu
195    200    205

tcc agc att ctt got atc ctg att tcc tat gtc aac atc ctc ctg got     672
Ser Ser Ile Leu Ala Ile Leu Ile Ser Tyr Val Asn Ile Leu Leu Ala
210    215    220

atc ctg aga atc cac tca gct tca gga aga cac aag gca ttc tcc acc     720
Ile Leu Arg Ile His Ser Ala Ser Gly Arg His Lys Ala Phe Ser Thr
225    230    235    240

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tgt gct tcc cac ctc atc tca gtc atg ctc ttc tat gga tca ttg ttg      768
Cys Ala Ser His Leu Ile Ser Val Met Leu Phe Tyr Gly Ser Leu Leu
                245                250                255

ttt atg tat tca agg cct agt tcc acc tac tcc cta gag agg gac aaa      816
Phe Met Tyr Ser Arg Pro Ser Ser Thr Tyr Ser Leu Glu Arg Asp Lys
                260                265                270

gta gct gct ctg ttc tac acc gtg atc aac cca ctg ctc aac cct ctc      864
Val Ala Ala Leu Phe Tyr Thr Val Ile Asn Pro Leu Leu Asn Pro Leu
                275                280                285

atc tat agc ctg aga aac aaa gat atc aaa gag gcc ttc agg aaa gca      912
Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Glu Ala Phe Arg Lys Ala
                290                295                300

aca cag act ata caa cca caa aca tga                                  939
Thr Gln Thr Ile Gln Pro Gln Thr
305                310

<210> 172
<211> 312
<212> PRT
<213> Homo Sapiens

<400> 172
Met Glu Val Gly Asn Cys Thr Ile Leu Thr Glu Phe Ile Leu Leu Gly
1                5                10                15

Phe Ser Ala Asp Ser Gln Trp Gln Pro Ile Leu Phe Gly Val Phe Leu
20                25                30

Met Leu Tyr Leu Ile Thr Leu Ser Gly Asn Met Thr Leu Val Ile Leu
35                40                45

Ile Arg Thr Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Ile Gly
50                55                60

Asn Leu Ser Phe Leu Asp Phe Trp Tyr Thr Ser Val Tyr Thr Pro Lys
65                70                75                80

Ile Leu Ala Ser Cys Val Ser Glu Asp Lys Arg Ile Ser Leu Ala Gly
85                90                95

Cys Gly Ala Gln Leu Phe Phe Ser Cys Val Val Ala Tyr Thr Glu Cys
100               105               110

Tyr Leu Leu Ala Ala Met Ala Tyr Asp Arg His Ala Ala Ile Cys Asn
115               120               125

Pro Leu Leu Tyr Ser Gly Thr Met Ser Thr Ala Leu Cys Thr Gly Leu

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WO 02/24726

PCT/BE01/00162

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130              135              140
Val Ala Gly Ser Tyr Ile Gly Gly Phe Leu Asn Ala Ile Ala His Thr
145              150              155              160
Ala Asn Thr Phe Arg Leu His Phe Cys Gly Lys Asn Ile Ile Asp His
165              170              175
Phe Phe Cys Asp Ala Pro Pro Leu Val Lys Met Ser Cys Thr Asn Thr
180              185              190
Arg Val Tyr Glu Lys Val Leu Leu Gly Val Val Gly Phe Thr Val Leu
195              200              205
Ser Ser Ile Leu Ala Ile Leu Ile Ser Tyr Val Asn Ile Leu Leu Ala
210              215              220
Ile Leu Arg Ile His Ser Ala Ser Gly Arg His Lys Ala Phe Ser Thr
225              230              235              240
Cys Ala Ser His Leu Ile Ser Val Met Leu Phe Tyr Gly Ser Leu Leu
245              250              255
Phe Met Tyr Ser Arg Pro Ser Ser Thr Tyr Ser Leu Glu Arg Asp Lys
260              265              270
Val Ala Ala Leu Phe Tyr Thr Val Ile Asn Pro Leu Leu Asn Pro Leu
275              280              285
Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Glu Ala Phe Arg Lys Ala
290              295              300
Thr Gln Thr Ile Gln Pro Gln Thr
305              310

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<210> 173
<211> 969
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(966)
<223>

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<400> 173
atg aat tcc ctg aag cac ggg aat cac acc gct ctg acg ggg ttc atc      48
Met Asn Ser Leu Lys His Gly Asn His Thr Ala Leu Thr Gly Phe Ile

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PCT/BE01/00162

1	5	10	15	
cta ttg ggc tta aca gat gat cca atc ctt cga gtc atc ctc ttc atg				96
Leu Leu Gly Leu Thr Asp Asp Pro Ile Leu Arg Val Ile Leu Phe Met	20	25	30	
atc atc cta tct ggt aat ctc agc ata att att ctt atc aga att tct				144
Ile Ile Leu Ser Gly Asn Leu Ser Ile Ile Ile Leu Ile Arg Ile Ser	35	40	45	
tct cag ctc cat cat cct atg tat ttc ttt ctg agc cac ttg gct ttt				192
Ser Gln Leu His His Pro Met Tyr Phe Phe Leu Ser His Leu Ala Phe	50	55	60	
gct gac atg gcc tat tca tct tct gtc aca ccc aac atg ctt gta aac				240
Ala Asp Met Ala Tyr Ser Ser Ser Val Thr Pro Asn Met Leu Val Asn	65	70	75	80
ttc ctg gtc gag aga aat aca gtc tcc tac ctt gga tgt gcc atc cag				288
Phe Leu Val Glu Arg Asn Thr Val Ser Tyr Leu Gly Cys Ala Ile Gln	85	90	95	
ctt ggt tca ggc gct ttc ttt gca aca gtc gaa tgc gtc ctt ctg gct				336
Leu Gly Ser Ala Ala Phe Phe Ala Thr Val Glu Cys Val Leu Leu Ala	100	105	110	
gcc atg gcc tat gac cgc ttt gtc gca att tgc agt cca ctg ctt tat				384
Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Ser Pro Leu Leu Tyr	115	120	125	
tca acc aaa atg tcc aca caa gtc agt gtc cag cta ctc tta gta gtt				432
Ser Thr Lys Met Ser Thr Gln Val Ser Val Gln Leu Leu Val Val	130	135	140	
tac ata gct ggt ttt ctc att gct gtc tcc tat act act tcc ttc tat				480
Tyr Ile Ala Gly Phe Leu Ile Ala Val Ser Tyr Thr Thr Ser Phe Tyr	145	150	155	160
ttt tta ctc ttc tgt gga cca aat caa gtc aat cat ttt ttc tgt gat				528
Phe Leu Leu Phe Cys Gly Pro Asn Gln Val Asn His Phe Phe Cys Asp	165	170	175	
ttc gct ccc tta ctt gaa ctc tcc tgt tot gat atc agt gtc tcc aca				576
Phe Ala Pro Leu Leu Glu Leu Ser Cys Ser Asp Ile Ser Val Ser Thr	180	185	190	
gtt gtt ctc tca ttt tct tct gga tcc atc att gtg gtc act gtg tgt				624
Val Val Leu Ser Phe Ser Ser Gly Ser Ile Ile Val Val Thr Val Cys	195	200	205	
gtc ata gcc gtc tgc tac atc tat atc ctc atc acc atc ctg aag atg				672
Val Ile Ala Val Cys Tyr Ile Tyr Ile Leu Ile Thr Ile Leu Lys Met	210	215	220	
cgc tcc act gag ggg cac cac aag gct ttc tcc aag tgc act tcc cac				720
Arg Ser Thr Glu Gly His His Lys Ala Phe Ser Thr Cys Thr Ser His	225	230	235	240
ctc act gtg gtt acc ctg ttc tat ggg acc att acc ttc att tat gtg				768
Leu Thr Val Val Thr Leu Phe Tyr Gly Thr Ile Thr Phe Ile Tyr Val	245	250	255	

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atg ccc aat ttt agc tac tca act gac cag aac aag gtg gtg tct gtg      816
Met Pro Asn Phe Ser Tyr Ser Thr Asp Gln Asn Lys Val Val Ser Val
      260      265      270

ttg tac aca gtg gtg att ccc atg ttg aac ccc ctg atc tac agc ctc      864
Leu Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu
      275      280      285

agg aac aag gag att aag ggg gct ctg aag aga gag ctt gtt aga aaa      912
Arg Asn Lys Glu Ile Lys Gly Ala Leu Lys Arg Glu Leu Val Arg Lys
      290      295      300

ata ctt tct cat gat gct tgt tat ttt agt aga act tca aat aat gat      960
Ile Leu Ser His Asp Ala Cys Tyr Phe Ser Arg Thr Ser Asn Asn Asp
      305      310      315      320

att aca tag      969
Ile Thr

<210> 174
<211> 322
<212> PRT
<213> Homo Sapiens

<400> 174

Met Asn Ser Leu Lys His Gly Asn His Thr Ala Leu Thr Gly Phe Ile
1      5      10      15

Leu Leu Gly Leu Thr Asp Asp Pro Ile Leu Arg Val Ile Leu Phe Met
20      25      30

Ile Ile Leu Ser Gly Asn Leu Ser Ile Ile Ile Leu Ile Arg Ile Ser
35      40      45

Ser Gln Leu His His Pro Met Tyr Phe Phe Leu Ser His Leu Ala Phe
50      55      60

Ala Asp Met Ala Tyr Ser Ser Ser Val Thr Pro Asn Met Leu Val Asn
65      70      75      80

Phe Leu Val Glu Arg Asn Thr Val Ser Tyr Leu Gly Cys Ala Ile Gln
85      90      95

Leu Gly Ser Ala Ala Phe Phe Ala Thr Val Glu Cys Val Leu Leu Ala
100      105      110

Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Ser Pro Leu Leu Tyr
115      120      125

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Ser Thr Lys Met Ser Thr Gln Val Ser Val Gln Leu Leu Leu Val Val
 130 135 140
 Tyr Ile Ala Gly Phe Leu Ile Ala Val Ser Tyr Thr Thr Ser Phe Tyr
 145 150 155 160
 Phe Leu Leu Phe Cys Gly Pro Asn Gln Val Asn His Phe Phe Cys Asp
 165 170 175
 Phe Ala Pro Leu Leu Glu Leu Ser Cys Ser Asp Ile Ser Val Ser Thr
 180 185 190
 Val Val Leu Ser Phe Ser Ser Gly Ser Ile Ile Val Val Thr Val Cys
 195 200 205
 Val Ile Ala Val Cys Tyr Ile Tyr Ile Leu Ile Thr Ile Leu Lys Met
 210 215 220
 Arg Ser Thr Glu Gly His His Lys Ala Phe Ser Thr Cys Thr Ser His
 225 230 235 240
 Leu Thr Val Val Thr Leu Phe Tyr Gly Thr Ile Thr Phe Ile Tyr Val
 245 250 255
 Met Pro Asn Phe Ser Tyr Ser Thr Asp Gln Asn Lys Val Val Ser Val
 260 265 270
 Leu Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu
 275 280 285
 Arg Asn Lys Glu Ile Lys Gly Ala Leu Lys Arg Glu Leu Val Arg Lys
 290 295 300
 Ile Leu Ser His Asp Ala Cys Tyr Phe Ser Arg Thr Ser Asn Asn Asp
 305 310 315 320

Ile Thr

<210> 175
 <211> 936
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1) .. (933)
 <223>

WO 02/24726

PCT/BE01/00162

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<400> 175
atg ggg act gga aat gac acc act gtg gta gag ttt act ctt ttg ggg      48
Met Gly Thr Gly Asn Asp Thr Thr Val Val Glu Phe Thr Leu Leu Gly
1      5      10      15

tta tct gag gat act aca gtt tgt gct att tta ttt ctt gtg ttt cta      96
Leu Ser Glu Asp Thr Thr Val Cys Ala Ile Leu Phe Leu Val Phe Leu
20     25     30

gga att tat gtt gtc acc tta atg ggt aat atc agc ata att gta ttg      144
Gly Ile Tyr Val Val Thr Leu Met Gly Asn Ile Ser Ile Ile Val Leu
35     40     45

atc aga aga agt cat cat ctt cat aca ccc atg tac att ttc ctc tgc      192
Ile Arg Arg Ser His His Leu His Thr Pro Met Tyr Ile Phe Leu Cys
50     55     60

cat ttg gcc ttt gta gac att gga tac tcc tca tca gtc aca cct gtc      240
His Leu Ala Phe Val Asp Ile Gly Tyr Ser Ser Ser Val Thr Pro Val
65     70     75     80

atg ctc atg agc ttc cta agg aaa gaa acc tct ctc cct gtt gct ggt      288
Met Leu Met Ser Phe Leu Arg Lys Glu Thr Ser Leu Pro Val Ala Gly
85     90     95

tgt gtg gcc cag ctc tgt tct gta gtg acg ttt ggt acg gcc gag tgc      336
Cys Val Ala Gln Leu Cys Ser Val Val Thr Phe Gly Thr Ala Glu Cys
100    105    110

ttc ctg ctg gct gcc atg gcc tat gat cgc tat gtg gcc atc tgc tca      384
Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser
115    120    125

ccc ctg ctc tac tct acc tgc atg tcc cct gga gtc tgc atc atc tta      432
Pro Leu Leu Tyr Ser Thr Cys Met Ser Pro Gly Val Cys Ile Ile Leu
130    135    140

gtg ggc atg tcc tac ctg ggt gga tgt gtg aat gct tgc aca ttc att      480
Val Gly Met Ser Tyr Leu Gly Gly Cys Val Asn Ala Cys Thr Phe Ile
145    150    155    160

ggc tgc tta tta aga ctg tcc ttc tgt ggg cca aat aaa gtc aat cac      528
Gly Cys Leu Leu Arg Leu Ser Phe Cys Gly Pro Asn Lys Val Asn His
165    170    175

ttt ttc tgt gac tat tca cca ctt ttg aag ctt gct tgt tcc cat gat      576
Phe Phe Cys Asp Tyr Ser Pro Leu Leu Lys Leu Ala Cys Ser His Asp
180    185    190

ttt act ttt gaa ata att cca got atc tct tgt gga tct atc att gtg      624
Phe Thr Phe Glu Ile Ile Pro Ala Ile Ser Cys Gly Ser Ile Ile Val
195    200    205

gcc act gtg tgt gtc ata gcc ata tcc tac atc tat atc ctc atc acc      672
Ala Thr Val Cys Val Ile Ala Ile Ser Tyr Ile Tyr Ile Leu Ile Thr
210    215    220

atc ctg aag atg cac tcc acc aag ggc cgc cac aag gct ttc tcc acg      720
Ile Leu Lys Met His Ser Thr Lys Gly Arg His Lys Ala Phe Ser Thr

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225	230	235	240	
tgc acc tcc cac ctc agt gca gtc act gtg tta tat ggg acc atc acc				768
Cys Thr Ser His Leu Ser Ala Val Thr Val Leu Tyr Gly Thr Ile Thr				
245		250	255	
ttc att tat gtg atg ccc aag tcc agc tac tca act gac cag aac aag				816
Phe Ile Tyr Val Met Pro Lys Ser Ser Tyr Ser Thr Asp Gln Asn Lys				
260	265	270		
gtg gtg tct gtg tta tac acc gtg gtg att ccc atg ttg aac ccc ctg				864
Val Val Ser Val Leu Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu				
275	280	285		
atc tac agc ctc agg aac aag gag att aag ggg gct ctg aag aga gag				912
Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Gly Ala Leu Lys Arg Glu				
290	295	300		
ctt aga ata aaa ata ttt tct tga				936
Leu Arg Ile Lys Ile Phe Ser				
305	310			
<210>	176			
<211>	311			
<212>	PRT			
<213>	Homo Sapiens			
<400>	176			
Met Gly Thr Gly Asn Asp Thr Thr Val Val Glu Phe Thr Leu Leu Gly				
1	5	10	15	
Leu Ser Glu Asp Thr Thr Val Cys Ala Ile Leu Phe Leu Val Phe Leu				
20	25	30		
Gly Ile Tyr Val Val Thr Leu Met Gly Asn Ile Ser Ile Ile Val Leu				
35	40	45		
Ile Arg Arg Ser His His Leu His Thr Pro Met Tyr Ile Phe Leu Cys				
50	55	60		
His Leu Ala Phe Val Asp Ile Gly Tyr Ser Ser Ser Val Thr Pro Val				
65	70	75	80	
Met Leu Met Ser Phe Leu Arg Lys Glu Thr Ser Leu Pro Val Ala Gly				
85	90	95		
Cys Val Ala Gln Leu Cys Ser Val Val Thr Phe Gly Thr Ala Glu Cys				
100	105	110		
Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser				
115	120	125		

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PCT/BE01/00162

Pro Leu Leu Tyr Ser Thr Cys Met Ser Pro Gly Val Cys Ile Ile Leu
 130 135 140

Val Gly Met Ser Tyr Leu Gly Gly Cys Val Asn Ala Cys Thr Phe Ile
 145 150 155 160

Gly Cys Leu Leu Arg Leu Ser Phe Cys Gly Pro Asn Lys Val Asn His
 165 170 175

Phe Phe Cys Asp Tyr Ser Pro Leu Leu Lys Leu Ala Cys Ser His Asp
 180 185 190

Phe Thr Phe Glu Ile Ile Pro Ala Ile Ser Cys Gly Ser Ile Ile Val
 195 200 205

Ala Thr Val Cys Val Ile Ala Ile Ser Tyr Ile Tyr Ile Leu Ile Thr
 210 215 220

Ile Leu Lys Met His Ser Thr Lys Gly Arg His Lys Ala Phe Ser Thr
 225 230 235 240

Cys Thr Ser His Leu Ser Ala Val Thr Val Leu Tyr Gly Thr Ile Thr
 245 250 255

Phe Ile Tyr Val Met Pro Lys Ser Ser Tyr Ser Thr Asp Gln Asn Lys
 260 265 270

Val Val Ser Val Leu Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
 275 280 285

Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Gly Ala Leu Lys Arg Glu
 290 295 300

Leu Arg Ile Lys Ile Phe Ser
 305 310

<210> 177
 <211> 1032
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(1029)
 <223>

<400> 177

WO 02/24726

PCT/BE01/00162

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atg gct ctt tat ttt tca ctc ata ctc cat ggt atg agt gat ctt ttc      48
Met Ala Leu Tyr Phe Ser Leu Ile Leu His Gly Met Ser Asp Leu Phe
1      5      10      15

ttt ctc tct aca ggt cat cca aga gcg agc tgt agg atg gag gcc atg      96
Phe Leu Ser Thr Gly His Pro Arg Ala Ser Cys Arg Met Glu Ala Met
20     25     30

aaa cta tta aat caa tct caa gtg tca gaa ttc att ttg ctg gga ctg      144
Lys Leu Leu Asn Gln Ser Gln Val Ser Glu Phe Ile Leu Leu Gly Leu
25     40     45

acc agc tcc cag gat gta gag ttt ctt ctc ttt gcc ctc ttc tgg gtt      192
Thr Ser Ser Gln Asp Val Glu Phe Leu Leu Phe Ala Leu Phe Ser Val
50     55     60

atc tat gtg gtc aca gtt ttg ggt aac ctt ctt att ata gtc aca gtg      240
Ile Tyr Val Val Thr Val Leu Gly Asn Leu Leu Ile Ile Val Thr Val
65     70     75     80

ttt aac acc cct aac ctg aat act ccc atg tat ttt ctc ctt ggt aat      288
Phe Asn Thr Pro Asn Leu Asn Thr Pro Met Tyr Phe Leu Leu Gly Asn
85     90     95

ctc tct ttt gta gat atg acc ctt gct tct ttt gcc acc cct aag gtg      336
Leu Ser Phe Val Asp Met Thr Leu Ala Ser Phe Ala Thr Pro Lys Val
100    105    110

att ctg aac ttg tta aaa aag cag aag gta att tct ttt gct ggg tgc      384
Ile Leu Asn Leu Leu Lys Lys Gln Lys Val Ile Ser Phe Ala Gly Cys
115    120    125

ttc act cag ata ttt ctc ctt cac tta ctg ggt ggg gtt gaa atg gta      432
Phe Thr Gln Ile Phe Leu Leu His Leu Leu Gly Gly Val Glu Met Val
130    135    140

ctg ttg gtc tcc atg gct ttt gac aga tat gtg gcc att tgt aag ccc      480
Leu Leu Val Ser Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys Pro
145    150    155    160

cta cac tac atg acc atc atg aac aag aag gta tgt gtt ttg ctt gta      528
Leu His Tyr Met Thr Ile Met Asn Lys Val Cys Val Leu Leu Val
165    170    175

gtg acc tca tgg ctc ttg ggt ctc ctt cac tca ggg ttt cag ata cca      576
Val Thr Ser Trp Leu Leu Gly Leu Leu His Ser Gly Phe Gln Ile Pro
180    185    190

ttt gct gtg aac ttg ccc ttt tgt ggt ccc aat gtg gta gac agc att      624
Phe Ala Val Asn Leu Pro Phe Cys Gly Pro Asn Val Val Asp Ser Ile
195    200    205

ttt tgt gac ctc cct ttg gtt act aag ctt gcc tgt ata gac ata tat      672
Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys Ile Asp Ile Tyr
210    215    220

ttt gta cag gta gtc att gtt gcc aac agt ggc ata atc tcc ctg agc      720
Phe Val Gln Val Val Ile Val Ala Asn Ser Gly Ile Ile Ser Leu Ser
225    230    235    240

tgt ttc att att ttg ctt atc tcc tac agt ctg atc ctc ata acc att      768

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WO 02/24726

PCT/BE01/00162

Cys Phe Ile Ile Leu Leu Ile Ser Tyr Ser Leu Ile Leu Ile Thr Ile
 245 250 255
 aag aac cac tct cct act ggg caa tct aaa gcc cgt tcc act ttg act 816
 Lys Asn His Ser Pro Thr Gly Gln Ser Lys Ala Arg Ser Thr Leu Thr
 260 265 270
 gct cac atc aca gtg gtg att ctc ttc ttt ggc cca tgc atc ttt atc 864
 Ala His Ile Thr Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Ile
 275 280 285
 tac att tgg ccc ttc ggc aac cac tct gta gat aag ttc ctt gct gtg 912
 Tyr Ile Trp Pro Phe Gly Asn His Ser Val Asp Lys Phe Leu Ala Val
 290 295 300
 ttt tat acc atc atc act cct atc ttg aat cca att atc tat act ctg 960
 Phe Tyr Thr Ile Ile Thr Pro Ile Leu Asn Pro Ile Ile Tyr Thr Leu
 305 310 315 320
 aga aac aaa gaa atg aag ata tcc atg aaa aaa ctc tgg aga gct ttt 1008
 Arg Asn Lys Glu Met Lys Ile Ser Met Lys Lys Leu Trp Arg Ala Phe
 325 330 335
 gtg aat tct aga gaa gat act tag 1032
 Val Asn Ser Arg Glu Asp Thr
 340
 <210> 178
 <311> 343
 <212> PRT
 <213> Homo Sapiens
 <400> 178
 Met Ala Leu Tyr Phe Ser Leu Ile Leu His Gly Met Ser Asp Leu Phe
 1 5 10 15
 Phe Leu Ser Thr Gly His Pro Arg Ala Ser Cys Arg Met Glu Ala Met
 20 25 30
 Lys Leu Leu Asn Gln Ser Gln Val Ser Glu Phe Ile Leu Leu Gly Leu
 35 40 45
 Thr Ser Ser Gln Asp Val Glu Phe Leu Leu Phe Ala Leu Phe Ser Val
 50 55 60
 Ile Tyr Val Val Thr Val Leu Gly Asn Leu Leu Ile Ile Val Thr Val
 65 70 75 80
 Phe Asn Thr Pro Asn Leu Asn Thr Pro Met Tyr Phe Leu Leu Gly Asn
 85 90 95
 Leu Ser Phe Val Asp Met Thr Leu Ala Ser Phe Ala Thr Pro Lys Val
 100 105 110

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Ile Leu Asn Leu Leu Lys Lys Gln Lys Val Ile Ser Phe Ala Gly Cys
 115 120 125
 Phe Thr Gln Ile Phe Leu Leu His Leu Leu Gly Gly Val Glu Met Val
 130 135 140
 Leu Leu Val Ser Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys Pro
 145 150 155 160
 Leu His Tyr Met Thr Ile Met Asn Lys Lys Val Cys Val Leu Leu Val
 165 170 175
 Val Thr Ser Trp Leu Leu Gly Leu Leu His Ser Gly Phe Gln Ile Pro
 180 185 190
 Phe Ala Val Asn Leu Pro Phe Cys Gly Pro Asn Val Val Asp Ser Ile
 195 200 205
 Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys Ile Asp Ile Tyr
 210 215 220
 Phe Val Gln Val Val Ile Val Ala Asn Ser Gly Ile Ile Ser Leu Ser
 225 230 235 240
 Cys Phe Ile Ile Leu Leu Ile Ser Tyr Ser Leu Ile Leu Ile Thr Ile
 245 250 255
 Lys Asn His Ser Pro Thr Gly Gln Ser Lys Ala Arg Ser Thr Leu Thr
 260 265 270
 Ala His Ile Thr Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Ile
 275 280 285
 Tyr Ile Trp Pro Phe Gly Asn His Ser Val Asp Lys Phe Leu Ala Val
 290 295 300
 Phe Tyr Thr Ile Ile Thr Pro Ile Leu Asn Pro Ile Ile Tyr Thr Leu
 305 310 315 320
 Arg Asn Lys Glu Met Lys Ile Ser Met Lys Lys Leu Trp Arg Ala Phe
 325 330 335
 Val Asn Ser Arg Glu Asp Thr
 340

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<210> 179
 <211> 927
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(927)
 <223>

<400> 179
 atg gaa aca cag aac ctc aca gtg gtg aca gaa ttc att ctt ctt ggt 48
 Met Glu Thr Gln Asn Leu Thr Val Val Thr Glu Phe Ile Leu Leu Gly
 1 5 10 15
 ctg acc cag tct caa gat gct caa ctt ctg gtc ttt gtg cta gtc tta 96
 Leu Thr Gln Ser Gln Asp Ala Gln Leu Leu Val Phe Val Leu Val Leu
 20 25 30
 att ttc tac ctt atc atc ctc cct gga aat ttc ctc atc att ttc acc 144
 Ile Phe Tyr Leu Ile Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr
 35 40 45
 ata aag tca gaa cct ggg ctc aca gcc ccc ctc tat ttc ttt ctg ggc 192
 Ile Lys Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Phe Phe Leu Gly
 50 55 60
 aac ttg gcc tta ctg gat gca tcc tac tcc ttc att gtg gtt ccc agg 240
 Asn Leu Ala Leu Leu Asp Ala Ser Tyr Ser Phe Ile Val Val Pro Arg
 65 70 75 80
 atg ttg gtg gac ttc ctc tct gag aag aag gta atc tcc tat aga agc 288
 Met Leu Val Asp Phe Leu Ser Glu Lys Lys Val Ile Ser Tyr Arg Ser
 85 90 95
 tgc atc act cag ctc ttt ttc ttg cat ttt ctt gga gcg gga gag atg 336
 Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Ala Gly Glu Met
 100 105 110
 ttc ctc ctc gtt gtg atg gcc ttt gac cgc tac atc gcc atc tgc cgg 384
 Phe Leu Leu Val Val Met Ala Phe Asp Arg Tyr Ile Ala Ile Cys Arg
 115 120 125
 cct tta cac tat tca acc atc atg aac cct aga gcc tgc tat gaa tta 432
 Pro Leu His Tyr Ser Thr Ile Met Asn Pro Arg Ala Cys Tyr Ala Leu
 130 135 140
 tgg ttg gtt ctg tgg ctt ggg gcc ttt atc cat tcc att gta caa gta 480
 Ser Leu Val Leu Trp Leu Gly Gly Phe Ile His Ser Ile Val Gln Val
 145 150 155 160
 gcc ctt atc ctg cac ttg cct ttc tgt ggc cca aac cag ctc gat aac 528
 Ala Leu Ile Leu His Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp Asn
 165 170 175
 ttc ttc tgt gat gtt cca cag gtc atc aag ctg gcc tgc acc aat acc 576
 Phe Phe Cys Asp Val Pro Gln Val Ile Lys Leu Ala Cys Thr Asn Thr
 180 185 190

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ttt gtg gtg gag ctt ctg atg gtc tcc aac agt gga ctg ctc agc etc 624
Phe Val Val Glu Leu Leu Met Val Ser Asn Ser Gly Leu Leu Ser Leu
195 200 205

ctg tgc ttc ctg ggc ctt ctg gcc tcc tat gca gtc atc ctc tgt cgt 672
Leu Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Cys Arg
210 215 220

ata agg gag cac tcc tct gaa gga aag agc aag gct att tcc aca tgc 720
Ile Arg Glu His Ser Ser Glu Gly Lys Ser Lys Ala Ile Ser Thr Cys
225 230 235 240

acc acc cat att atc att ata ttt ctc atg ttt gga cct gct att ttc 768
Thr Thr His Ile Ile Ile Phe Leu Met Phe Gly Pro Ala Ile Phe
245 250 255

atc tac act tgc ccc ttc cag gct ttc oca gct gac aag gta gtt tct 816
Ile Tyr Thr Cys Pro Phe Gln Ala Phe Pro Ala Asp Lys Val Val Ser
260 265 270

ctt ttc cat act gtc atc tct cct ttg atg aac cct gtt att tat acg 864
Leu Phe His Thr Val Ile Phe Pro Leu Met Asn Pro Val Ile Tyr Thr
275 280 285

ctt cgc aac cag gag gtg aaa gct tcc atg agg aag ttg tta agt caa 912
Leu Arg Asn Gln Glu Val Lys Ala Ser Met Arg Lys Leu Leu Ser Gln
290 295 300

cat atg ttt tgc tga 927
His Met Phe Cys
305

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<210> 180
 <211> 308
 <213> ERT
 <213> Homo Sapiens

<400> 180

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Met Glu Thr Gln Asn Leu Thr Val Val Thr Glu Phe Ile Leu Leu Gly
1 5 10 15

Leu Thr Gln Ser Gln Asp Ala Gln Leu Leu Val Phe Val Leu Val Leu
20 25 30

Ile Phe Tyr Leu Ile Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr
35 40 45

Ile Lys Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Phe Phe Leu Gly
50 55 60

Asn Leu Ala Leu Leu Asp Ala Ser Tyr Ser Phe Ile Val Val Pro Arg
65 70 75 80

Met Leu Val Asp Phe Leu Ser Glu Lys Lys Val Ile Ser Tyr Arg Ser

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<212> DNA
 <213> Homo Sapiens

<230>
 <221> CDS
 <222> (1)..(327)
 <223>

<400> 181
 atg gcc agt aca agt aat gtg act gag ttg att ttc act ggc ctt ttc 48
 Met Ala Ser Thr Ser Asn Val Thr Glu Leu Ile Phe Thr Gly Leu Phe
 1 5 10 15
 cag gat cca gct gtg cag agt gta tgc ttt gtg gtg ttt ctc ccc gtg 96
 Gln Asp Pro Ala Val Gln Ser Val Cys Phe Val Val Phe Leu Pro Val
 20 25 30
 tgc ctt gcc acg gtg gtg gcc aat gcc ctc atc gtt ctg acg gtc agt 144
 Tyr Leu Ala Thr Val Val Gly Asn Gly Leu Ile Val Leu Thr Val Ser
 35 40 45
 atc agc aag agt ctg gat tct ccc atg tac ttc ttc ctt agc tgc ctg 192
 Ile Ser Lys Ser Leu Asp Ser Pro Met Tyr Phe Phe Leu Ser Cys Leu
 50 55 60
 tcc ttg gtg gag atc agt tat tcc tcc act atc gcc cct aaa ttc atc 240
 Ser Leu Val Glu Ile Ser Tyr Ser Ser Thr Ile Ala Pro Lys Phe Ile
 65 70 75 80
 ata gac tta ctt gcc aag att aaa acc atc tct ctg gaa gcc tgt ctg 288
 Ile Asp Leu Leu Ala Lys Ile Lys Thr Ile Ser Leu Glu Gly Cys Leu
 85 90 95
 act cag ata ttc ttc ttc cac ttc ttt ggg gtt gct gag atc ctt ttg 336
 Thr Gln Ile Phe Phe His Phe Phe Gly Val Ala Glu Ile Leu Leu
 100 105 110
 att gtg gtg atg gcc tat gat tgc tac gtg gcc att tgc aag cct ctt 384
 Ile Val Val Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 cat tat atg aac att atc agt cgt caa ctg tgt cac ctt ctg gtg gct 432
 His Tyr Met Asn Ile Ile Ser Arg Gln Leu Cys His Leu Leu Val Ala
 130 135 140
 ggt tcc tgg ctg ggg gcc ttt tgt cac tcc ata att cag att ctc gtt 480
 Gly Ser Trp Leu Gly Gly Phe Cys His Ser Ile Ile Gln Ile Leu Val
 145 150 155 160
 atc atc caa ttg ccc ttc tgt ggt ccc aat gtg att gac cac tat ttc 528
 Ile Ile Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Phe
 165 170 175
 tgt gac ctc cag cct tta ttc aag ctt gcc tgc act gac acc ttc atg 576
 Cys Asp Leu Gln Pro Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Met
 180 185 190
 gag ggg gtt att gtg ttg gcc aac agt gga tta ttc tct gtc ttc tcc 624
 Glu Gly Val Ile Val Leu Ala Asn Ser Gly Leu Phe Ser Val Phe Ser
 195 200 205

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ttc ctc atc ttg gtg tcc tct tat att gtc att ctg gtc aac ttg agg      672
Phe Leu Ile Leu Val Ser Ser Tyr Ile Val Ile Leu Val Asn Leu Arg
210                215                220

aac cat tct gca gag ggg agg cac aaa gcc ctc tcc acc tgt gct tct      720
Asn His Ser Ala Glu Gly Arg His Lys Ala Leu Ser Thr Cys Ala Ser
225                230                235                240

cac atc aca gtc gtc atc ttg ttt ttt gga cct gct atc ttc ctc tac      768
His Ile Thr Val Val Ile Leu Phe Phe Gly Pro Ala Ile Phe Leu Tyr
245                250                255

atg cga cct tct tcc act ttc act gaa gat aaa ctt gtg gct gta ttc      816
Met Arg Pro Ser Ser Thr Phe Thr Glu Asp Lys Leu Val Ala Val Phe
260                265                270

tac acg gtc atc acc ccc atg ctg aac ccc atc att tac aca ctc agg      864
Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile Ile Tyr Thr Leu Arg
275                280                285

aat gca gag gtg aaa atc gcc ata aga aga ttg tgg agc aaa aag gag      912
Asn Ala Glu Val Lys Ile Ala Ile Arg Leu Leu Trp Ser Lys Lys Glu
290                295                300

aat cca ggg agg gag tga                                          930
Asn Pro Gly Arg Glu
305

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<210> 182
 <211> 309
 <212> PRT
 <213> Homo Sapiens

<400> 182

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Met Ala Ser Thr Ser Asn Val Thr Glu Leu Ile Phe Thr Gly Leu Phe
1          5          10          15

Gln Asp Pro Ala Val Gln Ser Val Cys Phe Val Val Phe Leu Pro Val
20          25          30

Tyr Leu Ala Thr Val Val Gly Asn Gly Leu Ile Val Leu Thr Val Ser
35          40          45

Ile Ser Lys Ser Leu Asp Ser Pro Met Tyr Phe Phe Leu Ser Cys Leu
50          55          60

Ser Leu Val Glu Ile Ser Tyr Ser Ser Thr Ile Ala Pro Lys Phe Ile
65          70          75          80

Ile Asp Leu Leu Ala Lys Ile Lys Thr Ile Ser Leu Glu Gly Cys Leu
85          90          95

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Thr Gln Ile Phe Phe Phe His Phe Phe Gly Val Ala Glu Ile Leu Leu
 100 105 110
 Ile Val Val Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Met Asn Ile Ile Ser Arg Gln Leu Cys His Leu Leu Val Ala
 130 135 140
 Gly Ser Trp Leu Gly Gly Phe Cys His Ser Ile Ile Gln Ile Leu Val
 145 150 155 160
 Ile Ile Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Phe
 165 170 175
 Cys Asp Leu Gln Pro Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Met
 180 185 190
 Glu Gly Val Ile Val Leu Ala Asn Ser Gly Leu Phe Ser Val Phe Ser
 195 200 205
 Phe Leu Ile Leu Val Ser Ser Tyr Ile Val Ile Leu Val Asn Leu Arg
 210 215 220
 Asn His Ser Ala Glu Gly Arg His Lys Ala Leu Ser Thr Cys Ala Ser
 225 230 235 240
 His Ile Thr Val Val Ile Leu Phe Phe Gly Pro Ala Ile Phe Leu Tyr
 245 250 255
 Met Arg Pro Ser Ser Thr Phe Thr Glu Asp Lys Leu Val Ala Val Phe
 260 265 270
 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile Ile Tyr Thr Leu Arg
 275 280 285
 Asn Ala Glu Val Lys Ile Ala Ile Arg Arg Leu Trp Ser Lys Lys Glu
 290 295 300
 Asn Pro Gly Arg Glu
 305
 <210> 183
 <211> 918
 <212> DWA
 <213> Homo Sapiens

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<220>
<221> CDS
<222> (1)..(915)
<223>

<400> 183
atg gtt gct aca aac aat gtg act gaa ata att ttc gtg gga ttt tcc      48
Met Val Ala Thr Asn Asn Val Thr Glu Ile Ile Phe Val Gly Phe Ser
1      5      10      15

cag aat tgg agt gag cag agg gtc att tct gtg atg ttt ctc ctc atg      96
Gln Asn Trp Ser Glu Gln Arg Val Ile Ser Val Met Phe Leu Leu Met
20     25     30

tac aca gct gtt gtg ctg ggc aat ggc ctc att gtg gtg acc atc ctg      144
Tyr Thr Ala Val Val Leu Gly Asn Gly Leu Ile Val Val Thr Ile Leu
35     40     45

ggc agc aaa gtg ctc acc tcc ccc atg tat ttc ttt ctc agc tac tta      192
Ala Ser Lys Val Leu Thr Ser Pro Met Tyr Phe Phe Leu Ser Tyr Leu
50     55     60

tcc ttt gtg gag atc tgc tac tgt tct gtc atg gcc ccc aag ctt atc      240
Ser Phe Val Glu Ile Cys Tyr Cys Ser Val Met Ala Pro Lys Leu Ile
65     70     75

ttt gcc tcc ttt atc aag agg aaa gtc att tct ctc aag ggc tgc ctc      288
Phe Asp Ser Phe Ile Lys Arg Lys Val Ile Ser Leu Lys Gly Cys Leu
85     90     95

aca cag atg ttt tcc ctc cat ttc ttt ggt ggc act gag gcc ttt ctc      336
Thr Gln Met Phe Ser Leu His Phe Phe Gly Gly Thr Glu Ala Phe Leu
100    105    110

ctg atg gtg atg gcc tat gac cgc tat gtg gcc atc tgc aag ccc ttg      384
Leu Met Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
115    120    125

cac tac atg gcc atc atg aac cag cga atg tgt ggt ctc ctc gtg agg      432
His Tyr Met Ala Ile Met Asn Gln Arg Met Cys Gly Leu Leu Val Arg
130    135    140

ata gca tgg ggc ggg ggc ctg ctg cat tot gtt ggg caa acc ttc ctg      480
Ile Ala Trp Gly Gly Gly Leu Leu His Ser Val Gly Gln Thr Phe Leu
145    150    155    160

att ttc cag ctc ccg ttc tgt ggc ccc aac atc atg gac cac tac ttc      528
Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn Ile Met Asp His Tyr Phe
165    170    175

tgt gat gtc cac cca gtg ctg gag ctg gcc tgc gca gac acc ttc ttc      576
Cys Asp Val His Pro Val Leu Glu Leu Ala Cys Ala Asp Thr Phe Phe
180    185    190

att agc ctg ctg atc atc acc aat ggc ggc tcc atc tcc gta gtc agt      624
Ile Ser Leu Leu Ile Ile Thr Asn Gly Gly Ser Ile Ser Val Val Ser
195    200    205

ttc ttc gtg ctg atg gct tcc tac ctg atc atc ctg cac ttc ctg aga      672
Phe Phe Val Leu Met Ala Ser Tyr Leu Ile Ile Leu His Phe Leu Arg

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Leu Met Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Met Ala Ile Met Asn Gln Arg Met Cys Gly Leu Leu Val Arg
 130 135 140
 Ile Ala Trp Gly Gly Gly Leu Leu His Ser Val Gly Gln Thr Phe Leu
 145 150 155 160
 Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn Ile Met Asp His Tyr Phe
 165 170 175
 Cys Asp Val His Pro Val Leu Glu Leu Ala Cys Ala Asp Thr Phe Phe
 180 185 190
 Ile Ser Leu Leu Ile Ile Thr Asn Gly Gly Ser Ile Ser Val Val Ser
 195 200 205
 Phe Phe Val Leu Met Ala Ser Tyr Leu Ile Ile Leu His Phe Leu Arg
 210 215 220
 Ser His Asn Leu Glu Gly Gln His Lys Ala Leu Ser Thr Cys Ala Ser
 225 230 235 240
 His Val Thr Val Val Asp Leu Phe Phe Ile Pro Cys Ser Leu Val Tyr
 245 250 255
 Ile Arg Pro Cys Val Thr Leu Pro Ala Asp Lys Ile Val Ala Val Phe
 260 265 270
 Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Val Ile Tyr Ser Phe Arg
 275 280 285
 Asn Ala Glu Val Lys Asn Ala Met Arg Arg Phe Ile Gly Gly Lys Val
 290 295 300

Ile
 305

<210> 185
 <211> 912
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1) .. (909)

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<223>

<400> 185
 atg act gaa ttc att ttt ctg gta ctt tct ccc aac cag gag gtg cag 48
 Met Thr Glu Phe Ile Phe Leu Val Leu Ser Pro Asn Gln Glu Val Gln
 1 5 10 15

agg gtt tgc ttt gtg ata ttt ctg ttc ttg tac aca gca att gtg ctg 96
 Arg Val Cys Phe Val Ile Phe Leu Phe Leu Tyr Thr Ala Ile Val Leu
 20 35 30

ggg aat ttc ctc att gtg ctc act gtc atg acc agc aga agc ctt ggt 144
 Gly Asn Phe Leu Ile Val Leu Thr Val Met Thr Ser Arg Ser Leu Gly
 35 40 45

tcc ccc atg tac ttc ttc ctc agc tac ctc tcc ttc atg gag atc tgc 192
 Ser Pro Met Tyr Phe Phe Leu Ser Tyr Leu Ser Phe Met Glu Ile Cys
 50 55 60

tac tcc tcc gct aca gcc ccc aaa ctc atc tca gat ctg ctg gct gaa 240
 Tyr Ser Ser Ala Thr Ala Pro Lys Leu Ile Ser Asp Leu Leu Ala Glu
 65 70 75 80

agg aaa gtc ata tct tgg tgg gcc tgc atg gca cag ctt ttc ttc ttg 288
 Arg Lys Val Ile Ser Trp Trp Gly Cys Met Ala Gln Leu Phe Phe Leu
 85 90 95

cac ttc ttt ggt ggc act gag att ttc ctg ctc act gtg atg gcc tat 336
 His Phe Phe Gly Gly Thr Glu Ile Phe Leu Leu Thr Val Met Ala Tyr
 100 105 110

gac cac tat atg gcc atc tgc aag ccc ctc agc tac acc acc atc atg 384
 Asp His Tyr Val Ala Ile Cys Lys Pro Leu Ser Tyr Thr Thr Ile Met
 115 120 125

aac tgg cag gtg tgt act gtc ctt gta gga ata gca tgg gtg gga gcc 432
 Asn Trp Gln Val Cys Thr Val Leu Val Gly Ile Ala Trp Val Gly Gly
 130 135 140

ttc atg cat tcc ttt gca caa atc ctt ctc atc ttc cac ctg ctc ttc 480
 Phe Met His Ser Phe Ala Gln Ile Leu Leu Ile Phe His Leu Leu Phe
 145 150 155 160

tgt ggc ccc aat gtg atc aat cac tat ttc tgt gac cta gtt ccc ctt 528
 Cys Gly Pro Asn Val Ile Asn His Tyr Phe Cys Asp Leu Val Pro Leu
 165 170 175

ctc aaa ctt gcc tgc tct gac acc ttc ctc att ggt ctg ctg att gtt 576
 Leu Lys Leu Ala Cys Ser Asp Thr Phe Leu Ile Gly Leu Leu Ile Val
 180 185 190

gcc aat gga gcc acc ctg tct gtg atc agt ttt ggg gtc ctc tta gca 624
 Ala Asn Gly Gly Thr Leu Ser Val Ile Ser Phe Gly Val Leu Leu Ala
 195 200 205

tcc tat atg gtc atc ttg ctc cat ctg aga acc tgg agc tct gaa ggg 672
 Ser Tyr Met Val Ile Leu Leu His Leu Arg Thr Trp Ser Ser Glu Gly
 210 215 220

tgg tgc aaa gcc ctc tcc acc tgt ggg tcc cat ttc got gtg gtt atc 720

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Trp Cys Lys Ala Leu Ser Thr Cys Gly Ser His Phe Ala Val Val Ile
225          230          235          240

ttg ttc ttt ggg ccc tgc gtc ttc aac tct ctg agg oct tct acc act      768
Leu Phe Phe Gly Pro Cys Val Phe Asn Ser Leu Arg Pro Ser Thr Thr
          245          250          255

ctg ccc ata gac aag atg gtg gct gtg ttc tac aca gtg ata acc gcg      816
Leu Pro Ile Asp Lys Met Val Ala Val Phe Tyr Thr Val Ile Thr Ala
          260          265          270

atc ctg aac cct gtc atc tac tct ctg aga aat gct gaa atg agg aag      864
Ile Leu Asn Pro Val Ile Tyr Ser Leu Arg Asn Ala Glu Met Arg Lys
          275          280          285

gcc atg aag agg ctg tgg att agg aca ttg aga cta aat gag aaa tag      912
Ala Met Lys Arg Leu Trp Ile Arg Thr Leu Arg Leu Asn Glu Lys
          290          295          300

<210> 186
<211> 303
<212> PRT
<213> Homo Sapiens

<400> 186

Met Thr Glu Phe Ile Phe Leu Val Leu Ser Pro Asn Gln Glu Val Gln
1          5          10          15

Arg Val Cys Phe Val Ile Phe Leu Phe Leu Tyr Thr Ala Ile Val Leu
20          25          30

Gly Asn Phe Leu Ile Val Leu Thr Val Met Thr Ser Arg Ser Leu Gly
35          40          45

Ser Pro Met Tyr Phe Phe Leu Ser Tyr Leu Ser Phe Met Glu Ile Cys
50          55          60

Tyr Ser Ser Ala Thr Ala Pro Lys Leu Ile Ser Asp Leu Leu Ala Glu
65          70          75          80

Arg Lys Val Ile Ser Trp Trp Gly Cys Met Ala Gln Leu Phe Phe Leu
85          90          95

His Phe Phe Gly Gly Thr Glu Ile Phe Leu Leu Thr Val Met Ala Tyr
100         105         110

Asp His Tyr Val Ala Ile Cys Lys Pro Leu Ser Tyr Thr Thr Ile Met
115         120         125

Asn Trp Gln Val Cys Thr Val Leu Val Gly Ile Ala Trp Val Gly Gly
130         135         140

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Phe Met His Ser Phe Ala Gln Ile Leu Leu Ile Phe His Leu Leu Phe
145 150 155 160

Cys Gly Pro Asn Val Ile Asn His Tyr Phe Cys Asp Leu Val Pro Leu
165 170 175

Leu Lys Leu Ala Cys Ser Asp Thr Phe Leu Ile Gly Leu Leu Ile Val
180 185 190

Ala Asn Gly Gly Thr Leu Ser Val Ile Ser Phe Gly Val Leu Leu Ala
195 200 205

Ser Tyr Met Val Ile Leu Leu His Leu Arg Thr Trp Ser Ser Glu Gly
210 215 220

Trp Cys Lys Ala Leu Ser Thr Cys Gly Ser His Phe Ala Val Val Ile
225 230 235 240

Leu Phe Phe Gly Pro Cys Val Phe Asn Ser Leu Arg Pro Ser Thr Thr
245 250 255

Leu Pro Ile Asp Lys Met Val Ala Val Phe Tyr Thr Val Ile Thr Ala
260 265 270

Ile Leu Asn Pro Val Ile Tyr Ser Leu Arg Asn Ala Glu Met Arg Lys
275 280 285

Ala Met Lys Arg Leu Trp Ile Arg Thr Leu Arg Leu Asn Glu Lys
290 295 300

<210> 187
<211> 1044
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(1041)
<223>

<400> 187
atg ggt aac tgg act gca gcg gtg act gag ttt gtt ctg ctg ggg ttt 48
Met Gly Asn Trp Thr Ala Ala Val Thr Glu Phe Val Leu Leu Gly Phe
1 5 10 15
tcc ctg agc agg gag gtg gag ctg ctg ctc ctg gtg ctc ctg ctg ccc 96
Ser Leu Ser Arg Glu Val Glu Leu Leu Leu Val Leu Leu Leu Pro
20 25 30

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acg ttc ctg ctg act ctt ctg ggg aac ctg ctc atc atc tcc act gtg      144
Thr Phe Leu Leu Thr Leu Leu Gly Asn Leu Leu Ile Ile Ser Thr Val
35          40          45

ctg tcc tgc tcc cgc ctc cac acc ccc atg tac ttc ttc ttg tgc aac      192
Leu Ser Cys Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Cys Asn
50          55          60

ctc tct atc ctg gac atc ctc ttc acc tca gtc atc tct cca aaa gtg      240
Leu Ser Ile Leu Asp Ile Leu Phe Thr Ser Val Ile Ser Pro Lys Val
65          70          75          80

ttg gcc aac tta gga tct agg gat aaa acc atc tcc ttt gcc gga tgt      288
Leu Ala Asn Leu Gly Ser Arg Asp Lys Thr Ile Ser Phe Ala Gly Cys
85          90          95

atc acc cag tgc tat ttc tac ttt ttc ttg ggc aca gtt gag ttc ctc      336
Ile Thr Gln Cys Tyr Phe Tyr Phe Phe Leu Gly Thr Val Glu Phe Leu
100         105         110

ctg ctg acg gtc atg tcc tat gac cgt tat gcc acc atc tgc tgc ccc      384
Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Ala Thr Ile Cys Cys Pro
115         120         125

ctg cgg tac acc acc atc atg aga cct tot gtc tgc att ggg acc gtt      432
Leu Arg Tyr Thr Thr Ile Met Arg Pro Ser Val Cys Ile Gly Thr Val
130         135         140

gta ttc tct tgg gtg gga ggc ttc ctg tct gtg ctc ttt cca acc atc      480
Val Phe Ser Trp Val Gly Gly Phe Leu Ser Val Leu Phe Pro Thr Ile
145         150         155         160

ctc atc tcc cag ctg ccc ttc tgt ggc tcc ant atc att aac cac ttc      528
Leu Ile Ser Gln Leu Pro Phe Cys Gly Ser Asn Ile Ile Asn His Phe
165         170         175

ttc tgt gac agt gga ccc ttg ctg gcc ctg gcc tgt gca gac acc act      576
Phe Cys Asp Ser Gly Pro Leu Leu Ala Leu Ala Cys Ala Asp Thr Thr
180         185         190

gcc atc gag ctg atg gat ttt atg ctt tct tcc atg gtc atc ctc tgc      624
Ala Ile Glu Leu Met Asp Phe Met Leu Ser Ser Met Val Ile Leu Cys
195         200         205

tgc ata gtc ctc gtg gcc tat tcc tat acg tac atc abc ttg acc ata      672
Cys Ile Val Leu Val Ala Tyr Ser Tyr Thr Tyr Ile Ile Leu Thr Ile
210         215         220

gtg cgc att cct tot gca agt gga agg aag aag gcc ttt aat acc tgt      720
Val Arg Ile Pro Ser Ala Ser Gly Arg Lys Lys Ala Phe Asn Thr Cys
225         230         235         240

gct tcc cac ctg acc ata gtc atc att cct agt ggc atc act gtg ttt      768
Ala Ser His Leu Thr Ile Val Ile Ile Pro Ser Gly Ile Thr Val Phe
245         250         255

atc tat gtg act ccc tcc cag aaa gaa tat ctg gag atc aac aag atc      816
Ile Tyr Val Thr Pro Ser Gln Lys Glu Tyr Leu Glu Ile Asn Lys Ile
260         265         270

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cct ttg gtt ctg agc agt gtg gtg act cca ttc ctc aac ccc ttt ata      864
Pro Leu Val Leu Ser Ser Val Val Thr Pro Phe Leu Asn Pro Phe Ile
      275                      280                      285

tat act ctg agg aat gac aca gtg cag gga gtc ctc agg gat gtg tgg      912
Tyr Thr Leu Arg Asn Asp Thr Val Gln Gly Val Leu Arg Asn Val Trp
      290                      295                      300

gtc agg gtt cga gga gtt ttt gaa aag agg atg agg gca gtg ctg aga      960
Val Arg Val Arg Gly Val Phe Glu Lys Arg Met Arg Ala Val Leu Arg
      305                      310                      315                      320

agc aga tta tcc tcc aac aaa gac cac caa gga agg gct tgc tct tct      1008
Ser Arg Leu Ser Ser Ser Asn Lys Asp His Gln Gly Arg Ala Cys Ser Ser
      325                      330                      335

cca cca tgt gtc tat tct gta aag ctc cag tgt tag      1044
Pro Pro Cys Val Tyr Ser Val Lys Leu Gln Cys
      340                      345

<310> 188
<211> 347
<312> PRT
<213> Homo Sapiens

<400> 188

Met Gly Asn Trp Thr Ala Ala Val Thr Glu Phe Val Leu Leu Gly Phe
1      5      10

Ser Leu Ser Arg Glu Val Glu Leu Leu Leu Leu Val Leu Leu Leu Pro
20      25      30

Thr Phe Leu Leu Thr Leu Leu Gly Asn Leu Leu Ile Ile Ser Thr Val
35      40      45

Leu Ser Cys Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Cys Asn
50      55      60

Leu Ser Ile Leu Asp Ile Leu Phe Thr Ser Val Ile Ser Pro Lys Val
65      70      75      80

Leu Ala Asn Leu Gly Ser Arg Asp Lys Thr Ile Ser Phe Ala Gly Cys
85      90      95

Ile Thr Gln Cys Tyr Phe Tyr Phe Phe Leu Gly Thr Val Glu Phe Leu
100      105      110

Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Ala Thr Ile Cys Cys Pro
115      120      125

Leu Arg Tyr Thr Thr Ile Met Arg Pro Ser Val Cys Ile Gly Thr Val

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130              135              140

Val Phe Ser Trp Val Gly Gly Phe Leu Ser Val Leu Phe Pro Thr Ile
145              150              155              160

Leu Ile Ser Gln Leu Pro Phe Cys Gly Ser Asn Ile Ile Asn His Phe
165              170              175

Phe Cys Asp Ser Gly Pro Leu Leu Ala Leu Ala Cys Ala Asp Thr Thr
180              185              190

Ala Ile Glu Leu Met Asp Phe Met Leu Ser Ser Met Val Ile Leu Cys
195              200              205

Cys Ile Val Leu Val Ala Tyr Ser Tyr Thr Tyr Ile Ile Leu Thr Ile
210              215              220

Val Arg Ile Pro Ser Ala Ser Gly Arg Lys Lys Ala Phe Asn Thr Cys
225              230              235              240

Ala Ser His Leu Thr Ile Val Ile Ile Pro Ser Gly Ile Thr Val Phe
245              250              255

Ile Tyr Val Thr Pro Ser Gln Lys Glu Tyr Leu Glu Ile Asn Lys Ile
260              265              270

Pro Leu Val Leu Ser Ser Val Val Thr Pro Phe Leu Asn Pro Phe Ile
275              280              285

Tyr Thr Leu Arg Asn Asp Thr Val Gln Gly Val Leu Arg Asp Val Trp
290              295              300

Val Arg Val Arg Gly Val Phe Glu Lys Arg Met Arg Ala Val Leu Arg
305              310              315              320

Ser Arg Leu Ser Ser Asn Lys Asp His Gln Gly Arg Ala Cys Ser Ser
325              330              335

Pro Pro Cys Val Tyr Ser Val Lys Leu Gln Cys
340              345

<210> 139
<211> 939
<212> DNA
<213> Homo Sapiens
<220>

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<221> CDS
 <222> (1)..(936)
 <223>

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<400> 189
atg gat gaa gcc aat cac tct gtg gtc tct gag ttt gtg ttc ctg gga      48
Met Asp Glu Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
1      5      10      15

ctc tot gac tgc cgg aag atc cag ctc ctc ttc ctc ttt ttc tca      56
Leu Ser Asp Ser Arg Lys Ile Gln Leu Leu Leu Phe Leu Phe Phe Ser
20      25      30

gtg ttc tat gta tca agc ctg atg gga aat ctc ctc att gtg cta act      144
Val Phe Tyr Val Ser Ser Leu Met Gly Asn Leu Leu Ile Val Leu Thr
35      40      45

gtg acc tct gac cct cgt tta cag tcc ccc atg cac ttc ctg ctg gcc      192
Val Thr Ser Asp Pro Arg Leu Gln Ser Pro Met Tyr Phe Leu Leu Ala
50      55      60

aac ctt tcc atc atc aat ttg gta ttt tgt tcc tcc aca gct ccc aag      240
Asn Leu Ser Ile Ile Asn Leu Val Phe Cys Ser Ser Thr Ala Pro Lys
65      70      75

atg att tat gac ctt ttc agg aag cac aag acc atc tot ttt ggg ggc      288
Met Ile Tyr Asp Leu Phe Arg Lys His Lys Thr Ile Ser Phe Gly Gly
85      90      95

tgt gta gtt cag atc ttc ttt atc cat gca gtt ggg gga act gag atg      336
Cys Val Val Gln Ile Phe Phe Ile His Ala Val Gly Gly Thr Glu Met
100      105      110

gtg ctg ctc ata gcc atg gct ttt gac cga tat gtg gcc ata tgt aag      384
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
115      120      125

cct ctc cac tac ctg acc atc atg aac cca caa agg tgc att ttg ttt      432
Pro Leu His Tyr Leu Thr Ile Met Asn Pro Gln Arg Cys Ile Leu Phe
130      135      140

tta gtc att tcc tgg att ata ggt att att cac tca gtg att cag ttg      480
Leu Val Ile Ser Trp Ile Ile Gly Ile Ile His Ser Val Ile Gln Leu
145      150      155      160

gct ttt gtt gta gac ctg ctg ttc tgt ggc cct aat gaa tta gat agt      528
Ala Phe Val Val Asp Leu Leu Phe Cys Gly Pro Asn Glu Leu Asp Ser
165      170      175

ttc ttt tgt gat ctt cct cga ttt atc aaa ctg gct tgc ata gag acc      576
Phe Phe Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Ile Glu Thr
180      185      190

tac aca ttg gga ttc atg gtt acc gcc aat agt gga ttt att tct ctg      624
Tyr Thr Leu Gly Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
195      200      205

gct tct ttt tta att ctc ata atc tct tac atc ttt att ttg gtg act      672
Ala Ser Phe Leu Ile Leu Ile Ile Ser Tyr Ile Phe Ile Leu Val Thr
210      215      220

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gtt cag aaa aaa tct tca ggt ggt ata ttc aag gct ttc tct atg ctg      720
Val Gln Lys Lys Ser Ser Gly Gly Ile Phe Lys Ala Phe Ser Met Leu
225                230                235                240

tca gct cat gtc att gtg gtg gtt ttg gtc ttt ggg cca tta atc ttt      768
Ser Ala His Val Ile Val Val Val Leu Val Phe Gly Pro Leu Ile Phe
245                250                255

ttc tat att ttt cca ttt ccc aca tca cat ctt gat aaa ttc ctt gcc      816
Phe Tyr Ile Phe Pro Phe Pro Thr Ser His Leu Asp Lys Phe Leu Ala
260                265                270

atc ttt gat gca gtt atc act ccc gtt ttg aat cca gtc atc tat act      864
Ile Phe Asp Ala Val Ile Thr Pro Val Leu Asn Pro Val Ile Tyr Thr
275                280                285

ttt aga aat aaa gag atg atg gtg gca atg aga aga cga tgc tct cag      912
Phe Arg Asn Lys Glu Met Met Val Ala Met Arg Arg Arg Cys Ser Gln
290                295                300

ttt gtg aat tac agt aaa atc ttt taa                                939
Phe Val Asn Tyr Ser Lys Ile Phe
305                310

<210> 190
<211> 312
<212> PRT
<213> Homo sapiens

<400> 190
Met Asp Glu Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
1      5      10      15

Leu Ser Asp Ser Arg Lys Ile Gln Leu Leu Leu Phe Leu Phe Phe Ser
20     25     30

Val Phe Tyr Val Ser Ser Leu Met Gly Asn Leu Leu Ile Val Leu Thr
35     40     45

Val Thr Ser Asp Pro Arg Leu Gln Ser Pro Met Tyr Phe Leu Leu Ala
50     55     60

Asn Leu Ser Ile Ile Asn Leu Val Phe Cys Ser Ser Thr Ala Pro Lys
65     70     75     80

Met Ile Tyr Asp Leu Phe Arg Lys His Lys Thr Ile Ser Phe Gly Gly
85     90     95

Cys Val Val Gln Ile Phe Phe Ile His Ala Val Gly Gly Thr Glu Met
100    105    110

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WO 02/24726

PCT/BE01/00162

Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
115 120 125

Pro Leu His Tyr Leu Thr Ile Met Asn Pro Gln Arg Cys Ile Leu Phe
130 135 140

Leu Val Ile Ser Trp Ile Ile Gly Ile Ile His Ser Val Ile Gln Leu
145 150 155 160

Ala Phe Val Val Asp Leu Leu Phe Cys Gly Pro Asn Glu Leu Asp Ser
165 170 175

Phe Phe Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Ile Glu Thr
180 185 190

Tyr Thr Leu Gly Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
195 200 205

Ala Ser Phe Leu Ile Leu Ile Ile Ser Tyr Ile Phe Ile Leu Val Thr
210 215 220

Val Gln Lys Lys Ser Ser Gly Gly Ile Phe Lys Ala Phe Ser Met Leu
225 230 235 240

Ser Ala His Val Ile Val Val Val Leu Val Phe Gly Pro Leu Ile Phe
245 250 255

Phe Tyr Ile Phe Pro Phe Pro Thr Ser His Leu Asp Lys Phe Leu Ala
260 265 270

Ile Phe Asp Ala Val Ile Thr Pro Val Leu Asn Pro Val Ile Tyr Thr
275 280 285

Phe Arg Asn Lys Glu Met Met Val Ala Met Arg Arg Arg Cys Ser Gln
290 295 300

Phe Val Asn Tyr Ser Lys Ile Phe
305 310

<210> 191
<211> 996
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(993)
<223>

WO 02/24726

PCT/BE01/00162

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<400> 191
atg agt cct gat ggg aac cac agt agt gat cca aca gag ttc gtc ctg      48
Met Ser Pro Asp Gly Asn His Ser Ser Asp Pro Thr Glu Phe Val Leu
1      5      10      15

gca ggg ctc cca aat ctc aac agc gca aga gtg gaa tta ttt tct gtg      96
Ala Gly Leu Pro Asn Leu Asn Ser Ala Arg Val Glu Leu Phe Ser Val
20     25     30

ttt ctt ctt gtc tat ctc ctg aat ctg aca ggc aat gtg ttg att gtg      144
Phe Leu Leu Val Tyr Leu Leu Asn Leu Thr Gly Asn Val Leu Ile Val
35     40     45

ggg gtg gta agg gct gat act cga cta cag acc cct atg tac ttc ttt      192
Gly Val Val Arg Ala Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe
50     55     60

ctg ggt aac ctg tcc tgc cta gag ata ctg ctc act tct gtc atc att      240
Leu Gly Asn Leu Ser Cys Leu Glu Ile Leu Thr Ser Val Ile Ile
65     70     75     80

cca aag atg ctg agc aat ttc ctc tca agg caa cac act att tcc ttt      288
Pro Lys Met Leu Ser Asn Phe Leu Ser Arg Gln His Thr Ile Ser Phe
85     90     95

gct gca tgt atc acc caa ttc tat ttc tac ttc ttt ctc ggg gcc tcc      336
Ala Ala Cys Ile Thr Gln Phe Tyr Phe Tyr Phe Phe Leu Gly Ala Ser
100    105    110

gag ttc tta ctg ttg gct gtc atg tct cgg gat cgc tac ctg gcc atc      384
Glu Phe Leu Leu Leu Ala Val Met Ser Ala Asp Arg Tyr Leu Ala Ile
115    120    125

tgt cat cct ctg cgc tac ccc ttg ctc atg agt ggg gct gtg tgc ttt      432
Cys His Pro Leu Arg Tyr Pro Leu Leu Met Ser Gly Ala Val Cys Phe
130    135    140

cgt gtg gcc ttg gcc tgc tgg gtg ggg gga ctc gtc cct gtg ctt ggt      480
Arg Val Ala Leu Ala Cys Trp Val Gly Gly Leu Val Pro Val Leu Gly
145    150    155    160

ccc aca gtg gct gtg gcc ttg ctt cct ttc tgt aag cag ggt gct gtg      528
Pro Thr Val Ala Val Ala Leu Leu Pro Phe Cys Lys Gln Gly Ala Val
165    170    175

gta cag cac ttc ttc tgc gac agt ggc oca ctg ctc cgc ctg gct tgc      576
Val Gln His Phe Phe Cys Asp Ser Gly Pro Leu Leu Arg Leu Ala Cys
180    185    190

acc aac acc aag aag ctg gag gag act gac ttt gtc ctg gcc tcc ctc      624
Thr Asn Thr Lys Lys Leu Glu Glu Thr Asp Phe Val Leu Ala Ser Leu
195    200    205

gtc att gta tct tcc ttg ctg atc act gct gtg tcc tac ggc ctc att      672
Val Ile Val Ser Ser Leu Leu Ile Thr Ala Val Ser Tyr Gly Leu Ile
210    215    220

gtg ctg gca gtc ctg agc atc ccc tct gct tca ggc cgt cag aag gcc      720
Val Leu Ala Val Leu Ser Ile Pro Ser Ala Ser Gly Arg Gln Lys Ala

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PCT/BE01/00162

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<210> 192
<211> 331
<212> PRT
<213> Homo Sapiens

<400> 192

Met Ser Pro Asp Gly Asn His Ser Ser Asp Pro Thr Glu Phe Val Leu
1          5          10          15

Ala Gly Leu Pro Asn Leu Asn Ser Ala Arg Val Glu Leu Phe Ser Val
          20          25          30

Phe Leu Leu Val Tyr Leu Leu Asn Leu Thr Gly Asn Val Leu Ile Val
          35          40          45

Gly Val Val Arg Ala Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe
50          55          60

Leu Gly Asn Leu Ser Cys Leu Glu Ile Leu Leu Thr Ser Val Ile Ile
65          70          75          80

Pro Lys Met Leu Ser Asn Phe Leu Ser Arg Gln His Thr Ile Ser Phe
          85          90          95

Ala Ala Cys Ile Thr Gln Phe Tyr Phe Tyr Phe Phe Leu Gly Ala Ser
          100          105          110

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PCT/BE01/00162

Glu Phe Leu Leu Leu Ala Val Met Ser Ala Asp Arg Tyr Leu Ala Ile
 115 120 125
 Cys His Pro Leu Arg Tyr Pro Leu Leu Met Ser Gly Ala Val Cys Phe
 130 135 140
 Arg Val Ala Leu Ala Cys Trp Val Gly Gly Leu Val Pro Val Leu Gly
 145 150 155 160
 Pro Thr Val Ala Val Ala Leu Leu Pro Phe Cys Lys Gln Gly Ala Val
 165 170 175
 Val Gln His Phe Phe Cys Asp Ser Gly Pro Leu Leu Arg Leu Ala Cys
 180 185 190
 Thr Asn Thr Lys Lys Leu Glu Glu Thr Asp Phe Val Leu Ala Ser Leu
 195 200 205
 Val Ile Val Ser Ser Leu Leu Ile Thr Ala Val Ser Tyr Gly Leu Ile
 210 215 220
 Val Leu Ala Val Leu Ser Ile Pro Ser Ala Ser Gly Arg Gln Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Thr Ser His Leu Ile Val Val Thr Leu Phe Tyr Gly
 245 250 255
 Ser Ala Ile Phe Leu Tyr Val Arg Pro Ser Gln Ser Gly Ser Val Asp
 260 265 270
 Thr Asn Trp Ala Val Thr Val Ile Thr Thr Phe Val Thr Pro Leu Leu
 275 280 285
 Asn Pro Phe Ile Tyr Ala Leu Arg Asn Glu Gln Val Lys Glu Ala Leu
 290 295 300
 Lys Asp Met Phe Arg Lys Val Val Ala Gly Val Leu Gly Asn Leu Leu
 305 310 315 320
 Leu Asp Lys Cys Leu Ser Glu Lys Ala Val Lys
 325 330
 <210> 193
 <211> 945
 <212> DNA
 <213> Homo Sapiens

WO 02/24726

PCT/BE01/00162

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<220>
<221> CDS
<222> (1) .. (912)
<223>

<400> 193
atg tcg aat gag gac atg gaa cag gat aat aca aca ttg ctg aca gag      48
Met Ser Asn Glu Asp Met Glu Gln Asp Asn Thr Thr Leu Leu Thr Glu
1      5      10      15

ttt gtt ctc aca gga ctt aca tat cag cca gag tgg aaa atg ccc ctg      96
Phe Val Leu Thr Gly Leu Thr Tyr Gln Pro Glu Trp Lys Met Pro Leu
20     25     30

ttc ttg gtg ttc ttg gtg atc tat ctc atc act att gtg tgg aac ctt      144
Phe Leu Val Phe Leu Val Ile Tyr Leu Ile Thr Ile Val Trp Asn Leu
35     40     45

ggc ctg att gct ctt atc tgg aat gac cca caa ctt cac atc ccc atg      192
Gly Leu Ile Ala Leu Ile Trp Asn Asp Pro Gln Leu His Ile Pro Met
50     55     60

taa ttt ttt ctt ggg agt tta gcc ttt gtt gat gct tgg ata tct tcc      240
Tyr Phe Phe Leu Gly Ser Leu Ala Phe Val Asp Ala Trp Ile Ser Ser
65     70     75     80

aca gta act ccc aaa atg ttg gtt aat ttc ttg gcc aaa aac agg atg      288
Thr Val Thr Pro Lys Met Leu Val Asn Phe Leu Ala Lys Asn Arg Met
85     90     95

ata tot ctg tct gaa tgc atg att caa ttt ttt tcc ttt gca ttt ggt      336
Ile Ser Leu Ser Glu Cys Met Ile Gln Phe Phe Ser Phe Ala Phe Gly
100    105    110

gga aat aca gaa tgt ttt ctc ttg gca aca atg gca tat gat cgc tat      384
Gly Thr Thr Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr
115    120    125

gta gcc ata tgc aaa cct tta cta tat cca gtg att atg aac aat tca      432
Val Ala Ile Cys Lys Pro Leu Leu Tyr Pro Val Ile Met Asn Asn Ser
130    135    140

cta tgc ata cgg ctg tta gcc ttc tca ttt tta ggt gcc ttc ctc cat      480
Leu Cys Ile Arg Leu Leu Ala Phe Ser Phe Leu Gly Gly Phe Leu His
145    150    155    160

gcc tta att cat gaa gtc ctt ata ttc aga tta acc ttc tgc aat tct      528
Ala Leu Ile His Glu Val Leu Ile Phe Arg Leu Thr Phe Cys Asn Ser
165    170    175

aac ata ata cat cat ttt tac tgt gat att ata cca ctg ttt atg att      576
Asn Ile Ile His His Phe Tyr Cys Asp Ile Ile Pro Leu Phe Met Ile
180    185    190

tcc tgt act gac cct tct att aat ttt cta atg gtt ttt att ttg tct      624
Ser Cys Thr Asp Pro Ser Ile Asn Phe Leu Met Val Phe Ile Leu Ser
195    200    205

ggc tca att cag gta ttc acc att gtg aca gtt ctt aat tct tac aca      672

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WO 02/24726

PCT/BE01/00162

Gly Ser Ile Gln Val Phe Thr Ile Val Thr Val Leu Asn Ser Tyr Thr
 210 215 220
 ttt gct ctt ttc aca atc cta aaa aag aag tot gtt aga ggc gta agg 720
 Phe Ala Leu Phe Thr Ile Leu Lys Lys Lys Ser Val Arg Gly Val Arg
 225 230 235 240
 aaa gcc ttt tcc acc tgt gga gcc cat ctc tta tct gtc tct tta tat 768
 Lys Ala Phe Ser Thr Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr
 245 250 255
 tat ggc cca ctt atc ttc atg tat ttg cgc cct gca tct cca caa gca 816
 Tyr Gly Pro Leu Ile Phe Met Tyr Leu Arg Pro Ala Ser Pro Gln Ala
 260 265 270
 gat gac caa gat atg ata gac tct gtc ttt tat aca atc ata att cct 864
 Asp Asp Gln Asp Met Ile Asp Ser Val Phe Tyr Thr Ile Ile Ile Pro
 275 280 285
 ttg cta aat ccc ett atc tac agt ctg aga aat aaa caa gta ata gat 912
 Leu Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Asp
 290 295 300
 tca ttc aca aaa atg gta aaa aga aat gtt tag 945
 Ser Phe Thr Lys Met Val Lys Arg Asn Val
 305 310

 <210> 194
 <211> 314
 <212> PRT
 <213> Homo Sapiens

 <400> 194
 Met Ser Asn Glu Asp Met Glu Gln Asp Asn Thr Thr Leu Leu Thr Glu
 1 5 10 15
 Phe Val Leu Thr Gly Leu Thr Tyr Gln Pro Glu Trp Lys Met Pro Leu
 20 25 30
 Phe Leu Val Phe Leu Val Ile Tyr Leu Ile Thr Ile Val Trp Asn Leu
 35 40 45
 Gly Leu Ile Ala Leu Ile Trp Asn Asp Pro Gln Leu His Ile Pro Met
 50 55 60
 Tyr Phe Phe Leu Gly Ser Leu Ala Phe Val Asp Ala Trp Ile Ser Ser
 65 70 75 80
 Thr Val Thr Pro Lys Met Leu Val Asn Phe Leu Ala Lys Asn Arg Met
 85 90 95
 Ile Ser Leu Ser Glu Cys Met Ile Gln Phe Phe Ser Phe Ala Phe Gly
 100 105 110

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PCT/BE01/00162

Gly Thr Thr Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr
 115 120 125
 Val Ala Ile Cys Lys Pro Leu Leu Tyr Pro Val Ile Met Asn Asn Ser
 130 135 140
 Leu Cys Ile Arg Leu Leu Ala Phe Ser Phe Leu Gly Gly Phe Leu His
 145 150 155 160
 Ala Leu Ile His Glu Val Leu Ile Phe Arg Leu Thr Phe Cys Asn Ser
 165 170 175
 Asn Ile Ile His His Phe Tyr Cys Asp Ile Ile Pro Leu Phe Met Ile
 180 185 190
 Ser Cys Thr Asp Pro Ser Ile Asn Phe Leu Met Val Phe Ile Leu Ser
 195 200 205
 Gly Ser Ile Gln Val Phe Thr Ile Val Thr Val Leu Asn Ser Tyr Thr
 210 215 220
 Phe Ala Leu Phe Thr Ile Leu Lys Lys Lys Ser Val Arg Gly Val Arg
 225 230 235 240
 Lys Ala Phe Ser Thr Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr
 245 250 255
 Tyr Gly Pro Leu Ile Phe Met Tyr Leu Arg Pro Ala Ser Pro Gln Ala
 260 265 270
 Asp Asp Gln Asp Met Ile Asp Ser Val Phe Tyr Thr Ile Ile Ile Pro
 275 280 285
 Leu Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Asp
 290 295 300
 Ser Phe Thr Lys Met Val Lys Arg Asn Val
 305 310
 <210> 195
 <211> 978
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS

WO 02/24726

PCT/BE01/00162

<222> (1)..(975)
<223>

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<400> 195
atg ttc ctt tac ctt tgc ttc att ttt cag agg aca tgc agt gag gag      48
Met Phe Leu Tyr Leu Cys Phe Ile Phe Gln Arg Thr Cys Ser Glu Glu
1      5      10      15

atg gaa gag gaa aat gca aca ttg ctg aca gag ttt gtt ctc aca gga      96
Met Glu Glu Glu Asn Ala Thr Leu Leu Thr Glu Phe Val Leu Thr Gly
20     25     30

ttt tta cat caa cct gac tgt aaa ata cgg ctc ttc ctg gca ttc ttg     144
Phe Leu His Gln Pro Asp Cys Lys Ile Pro Leu Phe Leu Ala Phe Leu
35     40     45

gta ata tat ctc atc acc atc atg ggg aat ctt ggt cta att gtt ctc     192
Val Ile Tyr Leu Ile Thr Ile Met Gly Asn Leu Gly Leu Ile Val Leu
50     55     60

atc tgg aaa gac cct cac ctt cat atc cca atg tac tta ttc ctt ggg     240
Ile Trp Lys Asp Pro His Leu His Ile Pro Met Tyr Leu Phe Leu Gly
55     70     75     80

agt tta gcc ttt gtg gat gct tgg tta tca tcc aca gtg act cgg aag     288
Ser Leu Ala Phe Val Asp Ala Ser Leu Ser Ser Thr Val Thr Pro Lys
85     90     95

atg ctg atc aac ttc tta gct aag agt aag atg ata tct ctc tct gaa     336
Met Leu Ile Asn Phe Leu Ala Lys Ser Lys Met Ile Ser Leu Ser Glu
100    105    110

tgc atg gta caa ttt ttt tcc ctt gta acc act gta acc aca gaa tgt     384
Cys Met Val Gln Phe Phe Ser Leu Val Thr Thr Val Thr Thr Glu Cys
115    120    125

ttt ctc ttg gca aca atg gca tat gat cgc tat gta gcc att tgc aaa     432
Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
130    135    140

gct tta ctt tat cca gtc att atg acc aat gaa cta tgc att cag cta     480
Ala Leu Leu Tyr Pro Val Ile Met Thr Asn Glu Leu Cys Ile Gln Leu
145    150    155    160

tta gtc ttg tca ttt ata ggt ggc ctt ctt cat gct tta atc cat gaa     528
Leu Val Leu Ser Phe Ile Gly Gly Leu Leu His Ala Leu Ile His Glu
165    170    175

gct ttt tca ttc aga tta acc ttc tgt aat tcc aac ata ata caa cac     576
Ala Phe Ser Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile Ile Gln His
180    185    190

ttt tac tgt gac att atc cca ttg tta aag att tcc tgt act gat tcc     624
Phe Tyr Cys Asp Ile Ile Pro Leu Leu Lys Ile Ser Cys Thr Asp Ser
195    200    205

tct att aac ttt cta atg gtt ttt att ttc gca ggt tct gtt caa gtt     672
Ser Ile Asn Phe Leu Met Val Phe Ile Phe Ala Gly Ser Val Gln Val
210    215    220

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ttt acc att gga act att ctt ata tct tat aca att atc ctc ttt ada      720
Phe Thr Ile Gly Thr Ile Leu Ile Ser Tyr Thr Ile Ile Leu Phe Thr
225                230                235                240

atc tta gaa aag aag tct atc aaa ggg ata cga aaa gct gtc tcc acc      768
Ile Leu Glu Lys Lys Ser Ile Lys Gly Ile Arg Lys Ala Val Ser Thr
245                250                255

tgt ggg gct cat ctc tta tct gta tct tta tac tat ggc ccc ctc acc      816
Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr Tyr Gly Pro Leu Thr
260                265                270

ttc aaa tat ctg ggc tct gca tct ccg caa gca gat gac caa gat atg      864
Phe Lys Tyr Leu Gly Ser Ala Ser Pro Gln Ala Asp Asp Gln Asp Met
275                280                285

arg gag tct cta ttt tac act gtc ata gtt cct tta tta aat ccc atg      912
Met Glu Ser Leu Phe Tyr Thr Val Ile Val Pro Leu Leu Asn Pro Met
290                295                300

atc tac agc ctg aga aac aag caa gta ata gct tca ttc aca aaa atg      960
Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Ala Ser Phe Thr Lys Met
305                310                315                320

ttc aaa agc aat gtt tag
Phe Lys Ser Asn Val
325

<210> 196
<211> 325
<212> PRT
<213> Homo Sapiens

<400> 196

Met Phe Leu Tyr Leu Cys Phe Ile Phe Gln Arg Thr Cys Ser Glu Glu
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Met Glu Glu Glu Asn Ala Thr Leu Leu Thr Glu Phe Val Leu Thr Gly
20                25                30

Phe Leu His Gln Pro Asp Cys Lys Ile Pro Leu Phe Leu Ala Phe Leu
35                40                45

Val Ile Tyr Leu Ile Thr Ile Met Gly Asn Leu Gly Leu Ile Val Leu
50                55                60

Ile Trp Lys Asp Pro His Leu His Ile Pro Met Tyr Leu Phe Leu Gly
65                70                75                80

Ser Leu Ala Phe Val Asp Ala Ser Leu Ser Ser Thr Val Thr Pro Lys
85                90                95

Met Leu Ile Asn Phe Leu Ala Lys Ser Lys Met Ile Ser Leu Ser Glu

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100 105 110
 Cys Met Val Gln Phe Phe Ser Leu Val Thr Thr Val Thr Thr Glu Cys
 115 120 125
 Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
 130 135 140
 Ala Leu Leu Tyr Pro Val Ile Met Thr Asn Glu Leu Cys Ile Gln Leu
 145 150 155 160
 Leu Val Leu Ser Phe Ile Gly Gly Leu Leu His Ala Leu Ile His Glu
 165 170 175
 Ala Phe Ser Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile Ile Gln His
 180 185 190
 Phe Tyr Cys Asp Ile Ile Pro Leu Leu Lys Ile Ser Cys Thr Asp Ser
 195 200 205
 Ser Ile Asn Phe Leu Met Val Phe Ile Phe Ala Gly Ser Val Gln Val
 210 215 220
 Phe Thr Ile Gly Thr Ile Leu Ile Ser Tyr Thr Ile Ile Leu Phe Thr
 225 230 235 240
 Ile Leu Glu Lys Lys Ser Ile Lys Gly Ile Arg Lys Ala Val Ser Thr
 245 250 255
 Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr Tyr Gly Pro Leu Thr
 260 265 270
 Phe Lys Tyr Leu Gly Ser Ala Ser Pro Gln Ala Asp Asp Gln Asp Met
 275 280 285
 Met Glu Ser Leu Phe Tyr Thr Val Ile Val Pro Leu Leu Asn Pro Met
 290 295 300
 Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Ala Ser Phe Thr Lys Met
 305 310 315 320
 Phe Lys Ser Asn Val
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 <210> 197
 <211> 885

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<212> DNA
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 <222> (1)..(885)
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 ctg aaa gta ctt ttt gtt atg ttc ttg ctc ttc tac att ttg acc atg 96
 Leu Lys Val Leu Phe Val Met Phe Leu Leu Phe Tyr Ile Leu Thr Met
 20 25 30
 gtg ggc aac ctg ctc att gta gtg acc gta act gtc agt gag acc ctg 144
 Val Gly Asn Leu Leu Ile Val Val Thr Val Thr Val Ser Glu Thr Leu
 35 40 45
 ggc tca cca atg tcc ttc ttt ctt got ggc tta aca ttt ata gat atc 192
 Gly Ser Pro Met Ser Phe Phe Leu Ala Gly Leu Thr Phe Ile Asp Ile
 50 55 60
 att tat tct tca tcc att tcc ccc aga ttg att tca gac ttg ttc ttt 240
 Ile Tyr Ser Ser Ser Ile Ser Pro Arg Leu Ile Ser Asp Leu Phe Phe
 65 70 75 80
 ggg aat aat tcc ata tcc ttc caa tct ttc atg gcc cag ctc ttt atc 288
 Gly Asn Asn Ser Ile Ser Phe Gln Ser Phe Met Ala Gln Leu Phe Ile
 85 90 95
 gag cac ctt ttt ggt ggg tca gag gtc ttt ctc ctg ttg gtg atg gcc 336
 Glu His Leu Phe Gly Gly Ser Glu Val Phe Leu Leu Leu Val Met Ala
 100 105 110
 tat gac cgc tat gtg gcc atc tgt aag ccc ttg cat tat ttg gtt atc 384
 Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Leu Val Ile
 115 120 125
 atg aga caa tgg gtg tgt gtt ttg ctg ctg gta gtg tcc tgg gtt gga 432
 Met Arg Gln Trp Val Cys Val Leu Leu Leu Val Val Ser Trp Val Gly
 130 135 140
 gga ttt ctg caa tca gta ttt caa ctt agc att att tat ggg ctc cca 480
 Gly Phe Leu Gln Ser Val Phe Gln Leu Ser Ile Ile Tyr Gly Leu Pro
 145 150 155 160
 ttc tgt ggc ccc aat gtc att gat cat ttt ttc tgt gac atg tat ccc 528
 Phe Cys Gly Pro Asn Val Ile Asp His Phe Phe Cys Asp Met Tyr Pro
 165 170 175
 tta ttg aaa ctg gcc tgc act gac acc cat gtt att ggc ctc tta gtg 576
 Leu Leu Lys Leu Ala Cys Thr Asp Thr His Val Ile Gly Leu Leu Val
 180 185 190
 gtg gcc aat gga gga ctg tct tgc act att gcg ttt ctg ctc tta ctc 624
 Val Ala Asn Gly Gly Leu Ser Cys Thr Ile Ala Phe Leu Leu Leu
 195 200 205

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atc tct tat ggt gtc atc ctg cac tct cta aag aaa ctt agt cag aaa      672
Ile Ser Tyr Gly Val Ile Leu His Ser Leu Lys Lys Leu Ser Gln Lys
210                215                220

ggg agg caa aaa gcc cac tca acc tgc agt tcc cac atc act gtg gtt      720
Gly Arg Gln Lys Ala His Ser Thr Cys Ser Ser His Ile Thr Val Val
225                230                235                240

gtc ttc ttc ttt gtt cct tgt att ttt atg tgt gct aga cct gct agg      768
Val Phe Phe Phe Val Pro Cys Ile Phe Met Cys Ala Arg Pro Ala Arg
245                250                255

acc ttc tcc att gac aaa tca gtg agt gtg ttt tat aca gtc ata acc      816
Thr Phe Ser Ile Asp Lys Ser Val Ser Val Phe Tyr Thr Val Ile Thr
260                265                270

cca atg ctg aac ccc tta atc tac act ctg aga aat tct gag atg aca      864
Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Ser Glu Met Thr
275                280                285

agt gct atg aag aag ctt tag      885
Ser Ala Met Lys Lys Leu
290

<210> 198
<211> 294
<212> PRT
<213> Homo Sapiens

<400> 198

Met Gln Thr Asp Phe Val Leu Leu Cys Phe Arg Gln Asn Pro Gln Glu
1      5      10      15

Leu Lys Val Leu Phe Val Met Phe Leu Leu Phe Tyr Ile Leu Thr Met
20     25     30

Val Gly Asn Leu Leu Ile Val Val Thr Val Thr Val Ser Glu Thr Leu
35     40     45

Gly Ser Pro Met Ser Phe Phe Leu Ala Gly Leu Thr Phe Ile Asp Ile
50     55     60

Ile Tyr Ser Ser Ser Ile Ser Pro Arg Leu Ile Ser Asp Leu Phe Phe
65     70     75     80

Gly Asn Asn Ser Ile Ser Phe Gln Ser Phe Met Ala Gln Leu Phe Ile
85     90     95

Glu His Leu Phe Gly Gly Ser Glu Val Phe Leu Leu Leu Val Met Ala
100    105    110

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Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Leu Val Ile
115 120 125

Met Arg Gln Trp Val Cys Val Leu Leu Leu Val Val Ser Trp Val Gly
130 135 140

Gly Phe Leu Gln Ser Val Phe Gln Leu Ser Ile Ile Tyr Gly Leu Pro
145 150 155 160

Phe Cys Gly Pro Asn Val Ile Asp His Phe Phe Cys Asp Met Tyr Pro
165 170 175

Leu Leu Lys Leu Ala Cys Thr Asp Thr His Val Ile Gly Leu Leu Val
180 185 190

Val Ala Asn Gly Gly Leu Ser Cys Thr Ile Ala Phe Leu Leu Leu Leu
195 200 205

Ile Ser Tyr Gly Val Ile Leu His Ser Leu Lys Lys Leu Ser Gln Lys
210 215 220

Gly Arg Gln Lys Ala His Ser Thr Cys Ser Ser His Ile Thr Val Val
225 230 235 240

Val Phe Phe Phe Val Pro Cys Ile Phe Met Cys Ala Arg Pro Ala Arg
245 250 255

Thr Phe Ser Ile Asp Lys Ser Val Ser Val Phe Tyr Thr Val Ile Thr
260 265 270

Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Ser Glu Met Thr
275 280 285

Ser Ala Met Lys Lys Leu
290

<210> 199
<211> 1014
<212> DNA
<213> Homo Sapiens

<220>
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Met	Glu	Gly	Lys	Asn	Gln	Thr	Asn	Ile	Ser	Glu	Phe	Leu	Leu	Leu	Gly		
1			5						10					15			
ttc	tca	agt	tgg	caa	caa	cag	cag	gtg	cta	ctc	ttt	gca	ctt	ttc	ctg	96	
Phe	Ser	Ser	Trp	Gln	Gln	Gln	Gln	Val	Leu	Leu	Phe	Ala	Leu	Phe	Leu		
			20					25					30				
tgt	ctc	tat	tta	aca	ggg	ctg	ttt	gga	aac	tta	ctc	atc	ttg	ctg	gcc	144	
Cys	Leu	Tyr	Leu	Thr	Gly	Leu	Phe	Gly	Asn	Leu	Ile	Leu	Leu	Ala			
			35					40				45					
att	ggc	tgc	gat	cac	tgc	ctt	cac	aca	ccc	atg	tat	ttc	ttc	ctt	gcc	192	
Ile	Gly	Ser	Asp	His	Cys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala		
			50					55				60					
aat	ctg	tcc	ttg	gta	gac	ctc	tgc	ctt	ccc	tca	gcc	aca	gtc	ccc	aag	240	
Asn	Leu	Ser	Leu	Val	Asp	Leu	Cys	Leu	Pro	Ser	Ala	Thr	Val	Pro	Lys		
			65				70					75			80		
atg	cta	ctg	aac	atc	caa	acc	caa	acc	caa	acc	atc	tcc	tat	ccc	ggc	288	
Met	Leu	Leu	Asn	Ile	Gln	Thr	Gln	Thr	Gln	Thr	Ile	Ser	Tyr	Pro	Gly		
				85						90				95			
tgc	ctg	gct	cag	atg	tat	ttc	tgt	atg	atg	ttt	gcc	aat	atg	gac	aat	336	
Cys	Leu	Ala	Gln	Met	Tyr	Phe	Cys	Met	Met	Phe	Ala	Asn	Met	Asp	Asn		
			100					105					110				
ttt	ctt	ctc	aca	gtg	atg	gca	tat	gac	cgt	tac	gtg	gcc	atc	tgt	cac	384	
Phe	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His			
			115					120				125					
cct	tta	cat	tac	tcc	acc	att	atg	gcc	ctg	cgc	ctc	tgt	gcc	tct	ctg	432	
Pro	Leu	His	Tyr	Ser	Thr	Ile	Met	Ala	Leu	Arg	Leu	Cys	Ala	Ser	Leu		
			130					135				140					
gta	gct	gca	cct	tgg	gtc	att	gcc	att	tbg	aac	cct	ctc	ttg	cac	act	480	
Val	Ala	Ala	Pro	Trp	Val	Ile	Ala	Ile	Leu	Asn	Pro	Leu	Leu	His	Thr		
			145			150				155				160			
ctt	atg	atg	gcc	cat	ctg	cac	tto	tgc	tct	gat	aat	gtt	atc	cac	cat	528	
Leu	Met	Met	Ala	His	Leu	His	Phe	Cys	Ser	Asp	Asn	Val	Ile	His	His		
				165					170				175				
ttc	ttc	tgt	gat	atc	aac	tct	ctc	ctc	cct	ctg	tcc	tgt	tcc	gac	acc	576	
Phe	Phe	Cys	Asp	Ile	Asn	Ser	Leu	Leu	Pro	Leu	Ser	Cys	Ser	Asp	Thr		
			180						185				190				
agt	ctt	aat	cag	ttg	agt	gtt	ctg	gct	acg	gtg	ggg	ctg	atc	ttt	gtg	624	
Ser	Leu	Asn	Gln	Leu	Ser	Val	Leu	Ala	Thr	Val	Gly	Leu	Ile	Phe	Val		
			195					200				205					
gta	cct	tca	gtg	tgt	atc	ctg	gta	tcc	tat	atc	ctc	att	gtt	tct	gct	672	
Val	Pro	Ser	Val	Cys	Ile	Leu	Val	Ser	Tyr	Ile	Leu	Ile	Val	Ser	Ala		
			210					215				220					
gtg	atg	aaa	gtc	cct	tct	gcc	caa	gga	aaa	ctc	aag	gct	ttc	tct	acc	720	
Val	Met	Lys	Val	Pro	Ser	Ala	Gln	Gly	Lys	Leu	Lys	Ala	Phe	Ser	Thr		
			225				230				235			240			
tgt	gga	tct	cac	ctt	gcc	ttg	gtc	att	ctt	ttc	tat	gga	gca	aac	aca	768	
Cys	Gly	Ser	His	Leu	Ala	Leu	Val	Ile	Leu	Phe	Tyr	Gly	Ala	Asn	Thr		

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245	250	255	
ggg gtc tat atg agc ccc tta tcc aat cac tct act gaa aaa gac tca Gly Val Tyr Met Ser Pro Leu Ser Asn His Ser Thr Glu Lys Asp Ser 260	265	270	816
gcc gca tca gtc att ttt atg gtt gta gca cct gtg ttg aat cca ttc Ala Ala Ser Val Ile Phe Met Val Val Ala Pro Val Leu Asn Pro Phe 275	280	285	864
att tac agt tta aga aac aat gaa ctg aag ggg act tta aaa gag acc Ile Tyr Ser Leu Arg Asn Asn Glu Leu Lys Gly Thr Leu Lys Lys Thr 290	295	300	912
cta agc cgg ccg ggc gcg gtg gct cac gcc tgt aat ccc agc act ttg Leu Ser Arg Pro Gly Ala Val Ala His Ala Cys Asn Pro Ser Thr Leu 305	310	315	960
gga ggc cga ggc ggg tgg atc atg agg tca gga gat cga gac cat cct Gly Gly Arg Gly Gly Trp Ile Met Arg Ser Gly Asp Arg Asp His Pro 325	330	335	1008
ggc taa Gly			1014
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Met Glu Gly Lys Asn Gln Thr Asn Ile Ser Glu Phe Leu Leu Leu Gly 1	5	10	15
Phe Ser Ser Trp Gln Gln Gln Gln Val Leu Leu Phe Ala Leu Phe Leu 20	25	30	
Cys Leu Tyr Leu Thr Gly Leu Phe Gly Asn Leu Leu Ile Leu Leu Ala 35	40	45	
Ile Gly Ser Asp His Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ala 50	55	60	
Asn Leu Ser Leu Val Asp Leu Cys Leu Pro Ser Ala Thr Val Pro Lys 65	70	75	80
Met Leu Leu Asn Ile Gln Thr Gln Thr Gln Thr Ile Ser Tyr Pro Gly 85	90	95	
Cys Leu Ala Gln Met Tyr Phe Cys Met Met Phe Ala Asn Met Asp Asn 100	105	110	

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Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu His Tyr Ser Thr Ile Met Ala Leu Arg Leu Cys Ala Ser Leu
 130 135 140
 Val Ala Ala Pro Trp Val Ile Ala Ile Leu Asn Pro Leu Leu His Thr
 145 150 155 160
 Leu Met Met Ala His Leu His Phe Cys Ser Asp Asn Val Ile His His
 165 170 175
 Phe Phe Cys Asp Ile Asn Ser Leu Leu Pro Leu Ser Cys Ser Asp Thr
 180 185 190
 Ser Leu Asn Gln Leu Ser Val Leu Ala Thr Val Gly Leu Ile Phe Val
 195 200 205
 Val Pro Ser Val Cys Ile Leu Val Ser Tyr Ile Leu Ile Val Ser Ala
 210 215 220
 Val Met Lys Val Pro Ser Ala Gln Gly Lys Leu Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Ala Leu Val Ile Leu Phe Tyr Gly Ala Asn Thr
 245 250 255
 Gly Val Tyr Met Ser Pro Leu Ser Asn His Ser Thr Glu Lys Asp Ser
 260 265 270
 Ala Ala Ser Val Ile Phe Met Val Val Ala Pro Val Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Asn Glu Leu Lys Gly Thr Leu Lys Lys Thr
 290 295 300
 Leu Ser Arg Pro Gly Ala Val Ala His Ala Cys Asn Pro Ser Thr Leu
 305 310 315 320
 Gly Gly Arg Gly Gly Trp Ile Met Arg Ser Gly Asp Arg Asp His Pro
 325 330 335
 Gly

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<210> 201
 <211> 945
 <212> DNA
 <213> Homo Sapiens

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 ttt atg gac cac ccc aaa ttg gag att ccc ctc ttt ctg gtg ttt ctg 96
 Phe Met Asp His Pro Lys Leu Glu Ile Pro Leu Phe Ile Val Phe Leu
 20 25 30
 agt ttc tac cta gtc acc ctt ctt ggg aat gtg ggg atg att atg tta 144
 Ser Phe Tyr Leu Val Thr Leu Leu Gly Asn Val Gly Met Ile Met Leu
 35 40 45
 atc caa gta gat gtc aac ctc tac acc cca atg tac ttc ttc ctg ago 192
 Ile Gln Val Asp Val Lys Leu Tyr Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 cac ctc tcc ctg ctg gat gcc tgt tac acc tca gtc atc acc cct cag 240
 His Leu Ser Leu Leu Asp Ala Cys Tyr Thr Ser Val Ile Thr Pro Gln
 65 70 75 80
 atc cta gcc aca ttg gcc aca gcc aac aag gtc atc tcc tac gcc cac 288
 Ile Leu Ala Thr Leu Ala Thr Gly Lys Thr Val Ile Ser Tyr Gly His
 85 90 95
 tgt gct gcc cag ttc ttt tta ttc acc atc tgt gca gcc aca gag tgg 336
 Cys Ala Ala Gln Phe Phe Leu Phe Thr Ile Cys Ala Gly Thr Glu Ser
 100 105 110
 ttt ctg ctg gca gtg atg gcc tat gat cgc tat gct gcc att cgc aac 384
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Arg Asn
 115 120 125
 cca ctg ctc tat acc gtg gcc atg aat ccc agg ctc tgc tgg agc ctg 432
 Pro Leu Leu Tyr Thr Val Ala Met Asn Pro Arg Leu Cys Trp Ser Leu
 130 135 140
 gtg gta gga gcc tat gtc tgt ggg gtg tca gga gcc atc ctg cgt acc 480
 Val Val Gly Ala Tyr Val Cys Gly Val Ser Gly Ala Ile Leu Arg Thr
 145 150 155 160
 act tgc acc ttc acc ctc tcc ttc tgt aag gac aat caa ata aac ttc 528
 Thr Cys Thr Phe Thr Leu Ser Phe Cys Lys Asp Asn Gln Ile Asn Phe
 165 170 175
 ttc ttc tgt gac ctc cca ccc ctg ctg aag ctt gcc tgc agt gac aca 576
 Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr
 180 185 190
 gca aac atc gag att gtc atc atc ttc ttt ggc aat ttt gtg att ttg 624

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Ala Asn Ile Glu Ile Val Ile Ile Phe Phe Gly Asn Phe Val Ile Leu
 195 200 205

gcc aat gcc tcc gtc atc ctg att tcc tat ctg ctc acc atc aag acc 672
 Ala Asn Ala Ser Val Ile Leu Ile Ser Tyr Leu Leu Ile Ile Lys Thr
 210 215 220

att ttg aaa gtg aag tct tca ggt ggc agg gcc aag act ttc tcc aca 720
 Ile Leu Lys Val Lys Ser Ser Gly Gly Arg Ala Lys Thr Phe Ser Thr
 225 230 235 240

tgt gcc tct cac atc act gct gtg gcc ctt ttc ttt gga gcc ctt atc 768
 Cys Ala Ser His Ile Thr Ala Val Ala Leu Phe Phe Gly Ala Leu Ile
 245 250 255

ttc atg tat ctg caa agt gcc tca ggc aaa tct ctg gag gaa gac aaa 816
 Phe Met Tyr Leu Gln Ser Gly Ser Gly Lys Ser Leu Glu Glu Asp Lys
 260 265 270

gtc gtg tct gtc ttc tat aca gtg gtc atc ccc atg ctg aac cct ctg 864
 Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
 275 280 285

atc tac agc tta aga aac aaa gat gta aaa gac gcc ttc aga aag gtc 912
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Phe Arg Lys Val
 290 295 300

gct agg aga ctc cag gtg tcc ctg agc atg tag 945
 Ala Arg Arg Leu Gln Val Ser Leu Ser Met
 305 310

<210> 202
 <211> 314
 <212> PRT
 <213> Homo Sapiens

<400> 202

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Phe Met Asp His Pro Lys Leu Glu Ile Pro Leu Phe Leu Val Phe Leu
 20 25 30

Ser Phe Tyr Leu Val Thr Leu Leu Gly Asn Val Gly Met Ile Met Leu
 35 40 45

Ile Gln Val Asp Val Lys Leu Tyr Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60

His Leu Ser Leu Leu Asp Ala Cys Tyr Thr Ser Val Ile Thr Pro Gln
 65 70 75 80

Ile Leu Ala Thr Leu Ala Thr Gly Lys Thr Val Ile Ser Tyr Gly His
 85 90 95

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Cys Ala Ala Gln Phe Phe Leu Phe Thr Ile Cys Ala Gly Thr Glu Ser
 100 105 110
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Arg Asn
 115 120 125
 Pro Leu Leu Tyr Thr Val Ala Met Asn Pro Arg Leu Cys Trp Ser Leu
 130 135 140
 Val Val Gly Ala Tyr Val Cys Gly Val Ser Gly Ala Ile Leu Arg Thr
 145 150 155 160
 Thr Cys Thr Phe Thr Leu Ser Phe Cys Lys Asp Asn Gln Ile Asn Phe
 165 170 175
 Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr
 180 185 190
 Ala Asn Ile Glu Ile Val Ile Ile Phe Phe Gly Asn Phe Val Ile Leu
 195 200 205
 Ala Asn Ala Ser Val Ile Leu Ile Ser Tyr Leu Leu Ile Ile Lys Thr
 210 215 220
 Ile Leu Lys Val Lys Ser Ser Gly Gly Arg Ala Lys Thr Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Ile Thr Ala Val Ala Leu Phe Phe Gly Ala Leu Ile
 245 250 255
 Phe Met Tyr Leu Gln Ser Gly Ser Gly Lys Ser Leu Glu Glu Asp Lys
 260 265 270
 Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
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 290 295 300
 Ala Arg Arg Leu Gln Val Ser Leu Ser Met
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<210> 203
 <211> 975
 <212> DNA

WO 02/24726

PCT/BE01/00162

<213> Homo Sapiens

<220>

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<222> (1)..(972)

<223>

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gga ctt tca gac cat cct caa atg aag att ttc ctt ttc atg tta ttt	96
Gly Leu Ser Asp His Pro Gln Met Lys Ile Phe Leu Phe Met Leu Phe	
20 25 30	
ctg ggg ctc tac ctc ctg acg tgg gcc tgg aac tta agc ctc att gcc	144
Leu Gly Leu Tyr Leu Leu Thr Leu Ala Trp Asn Leu Ser Leu Ile Ala	
35 40 45	
ctc att aag atg gac tct cag ctg cag atg ccc atg tac ttc ttc ctc	192
Leu Ile Lys Met Asp Ser His Leu His Met Pro Met Tyr Phe Phe Leu	
50 55 60	
agt aac ctg tcc ttc ctg gac atc tgc tat gtg tcc tcc acc gcc cct	240
Ser Asn Leu Ser Phe Leu Asp Ile Cys Tyr Val Ser Ser Thr Ala Pro	
65 70 75 80	
aag atg ctg tct gac atc atc aca gag cag aaa acc att tcc ttt gtt	288
Lys Met Leu Ser Asp Ile Ile Thr Glu Gln Lys Thr Ile Ser Phe Val	
85 90 95	
ggc tgt gcc act cag tac ttt gtc ttc tgt ggg atg ggg ctg act gaa	336
Gly Cys Ala Thr Gln Tyr Phe Val Phe Cys Gly Met Gly Leu Thr Glu	
100 105 110	
tgc ttt ctc ctg gca gct atg gcc tat gac cgg tat gct gca atc tgc	384
Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys	
115 120 125	
aac ccc ttg ctt tac aca gtc ctc ata tcc cat aca ctt tgt tta aag	432
Asn Pro Leu Leu Tyr Thr Val Leu Ile Ser His Thr Leu Cys Leu Lys	
130 135 140	
atg gtg gtt ggc gcc tat gtg ggt gga ttc ctt agt tct ttc att gaa	480
Met Val Val Gly Ala Tyr Val Gly Gly Phe Leu Ser Ser Phe Ile Glu	
145 150 155 160	
aca tac tct gtc tat cag cat gat ttc tgt ggg ccc tat atg atc aac	528
Thr Tyr Ser Val Tyr Gln His Asp Phe Cys Gly Pro Tyr Met Ile Asn	
165 170 175	
cac ttt ttc tgt gac ctc cct cca gtc ctg gct ctg tcc tgc tct gat	576
His Phe Phe Cys Asp Leu Pro Pro Val Leu Ala Leu Ser Cys Ser Asp	
180 185 190	
acc ttc acc agc gag gtg gtg acc ttc ata gtc agt gtt gtc gtt gga	624
Thr Phe Thr Ser Glu Val Val Thr Phe Ile Val Ser Val Val Val Gly	
195 200 205	

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ata gtg tct gtg cta gtg gtc ctc atc tct tat ggt tac att gtt gct 672
 ile val ser val leu val val leu ile ser tyr gly tyr ile val ala
 210 215 220
 gct gtt gtg aag atc agc tca gct aca ggt agg aca aag gcc ttc agc 720
 ala val val lys ile ser ser ala thr gly arg thr lys ala phe ser
 225 230 235 240
 act tgt gcc tct cac ctg act gct gtg acc ctc ttc tat ggt tct gga 768
 thr cys ala ser his leu thr ala val thr leu phe tyr gly ser gly
 245 250 255
 ttc ttc atg tac atg cga ccc agt tcc agc tac tcc cta aac agg gac 816
 phe phe met tyr met arg pro ser ser ser tyr ser leu asn arg asp
 260 265 270
 aag gtg gtg tcc ata ttc tat gcc ttg gtg atc ccc gtg gtg aat ccc 864
 lys val val ser ile phe tyr ala leu val ile pro val val asn pro
 275 280 285
 atc atc tac agt ttt agg aat aag gag att aaa aat gcc atg agg aaa 912
 ile ile tyr ser phe arg asn lys glu ile lys asn ala met arg lys
 290 295 300
 gcc atg gaa agg gcc ccc ggg att tct cgc ggt gga cca ttc att ttt 960
 ala met glu arg asp pro gly ile ser his gly gly pro phe ile phe
 305 310 315 320
 atg acc ttg ggc taa 975
 met thr leu gly

<210> 204
 <211> 324
 <212> PRT
 <213> Homo Sapiens

<400> 204

Met Ala Val Gly Arg Asn Asn Thr Ile Val Thr Lys Phe Ile Leu Leu
1 5 10 15

Gly Leu Ser Asp His Pro Gln Met Lys Ile Phe Leu Phe Met Leu Phe
20 25 30

Leu Gly Leu Tyr Leu Leu Thr Leu Ala Trp Asn Leu Ser Leu Ile Ala
35 40 45

Leu Ile Lys Met Asp Ser His Leu His Met Pro Met Tyr Phe Phe Leu
50 55 60

Ser Asn Leu Ser Phe Leu Asp Ile Cys Tyr Val Ser Ser Thr Ala Pro
65 70 75 80

Lys Met Leu Ser Asp Ile Ile Thr Glu Gln Lys Thr Ile Ser Phe Val

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85 90 95
 Gly Cys Ala Thr Gln Tyr Phe Val Phe Cys Gly Met Gly Leu Thr Glu
 100 105 110
 Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys
 115 120 125
 Asn Pro Leu Leu Tyr Thr Val Leu Ile Ser His Thr Leu Cys Leu Lys
 130 135 140
 Met Val Val Gly Ala Tyr Val Gly Gly Phe Leu Ser Ser Phe Ile Glu
 145 150 155 160
 Thr Tyr Ser Val Tyr Gln His Asp Phe Cys Gly Pro Tyr Met Ile Asn
 165 170 175
 His Phe Phe Cys Asp Leu Pro Pro Val Leu Ala Leu Ser Cys Ser Asp
 180 185 190
 Thr Phe Thr Ser Glu Val Val Thr Phe Ile Val Ser Val Val Val Gly
 195 200 205
 Ile Val Ser Val Leu Val Val Leu Ile Ser Tyr Gly Tyr Ile Val Ala
 210 215 220
 Ala Val Val Lys Ile Ser Ser Ala Thr Gly Arg Thr Lys Ala Phe Ser
 225 230 235 240
 Thr Cys Ala Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ser Gly
 245 250 255
 Phe Phe Met Tyr Met Arg Pro Ser Ser Ser Tyr Ser Leu Asn Arg Asp
 260 265 270
 Lys Val Val Ser Ile Phe Tyr Ala Leu Val Ile Pro Val Val Asn Pro
 275 280 285
 Ile Ile Tyr Ser Phe Arg Asn Lys Glu Ile Lys Asn Ala Met Arg Lys
 290 295 300
 Ala Met Glu Arg Asp Pro Gly Ile Ser His Gly Gly Pro Phe Ile Phe
 305 310 315 320
 Met Thr Leu Gly

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<210> 205
 <211> 948
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(945)
 <223>

<400> 205
 atg tcc ata acc aaa gcc tgg aac agc tca tca gtg acc atg ttc atc 48
 Met Ser Ile Thr Lys Ala Trp Asn Ser Ser Ser Val Thr Met Phe Ile
 1 5 10 15
 ctc ctg gga ttc aca gac cat cca gaa ctc cag gcc ctc ctc ttt gtg 96
 Leu Leu Gly Phe Thr Asp His Pro Glu Leu Gln Ala Leu Leu Phe Val
 20 25 30
 aac ttc ctg ggc atc tat ctt acc aac ctg gcc tgg aac ctg gcc ctc 144
 Thr Phe Leu Gly Ile Tyr Leu Thr Thr Leu Ala Trp Asn Leu Ala Leu
 35 40 45
 att ttt ctg atc aga ggt gac acc cat ctg cac aca ccc atg tac ttc 192
 Ile Phe Leu Ile Arg Gly Asp Thr His Leu His Thr Pro Met Tyr Phe
 50 55 60
 ttc cta agc aac tta tct ttc att gac atc tgc tac tct tct gct gtg 240
 Phe Leu Ser Asn Leu Ser Phe Ile Asp Ile Cys Tyr Ser Ser Ala Val
 65 70 75 80
 gct ccc aat atg ctc act gac ttc ttc tgg gag cag aag acc ata tca 288
 Ala Pro Asn Met Leu Thr Asp Phe Phe Trp Glu Gln Lys Thr Ile Ser
 85 90 95
 ttt gtg ggc tgt gct gct cag ttt ttt ttc ttt gtc gcc atg ggt ctg 336
 Phe Val Gly Cys Ala Ala Gln Phe Phe Phe Val Gly Met Gly Leu
 100 105 110
 tct gag tgc ctc ctc ctg act gct atg gca tac gac cga tat gca gcc 384
 Ser Glu Cys Leu Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala
 115 120 125
 atc tcc agc ccc ctt ctc tac ccc act atc atg acc cag gcc ctc tgt 432
 Ile Ser Ser Pro Leu Leu Tyr Pro Thr Ile Met Thr Gln Gly Leu Cys
 130 135 140
 aca cgc atg gtg gtt ggg gca tat gtt ggt gcc ttc ctg agc tcc ctg 480
 Thr Arg Met Val Val Gly Ala Tyr Val Gly Gly Phe Leu Ser Ser Leu
 145 150 155 160
 atc cag gcc agc tcc ata ttt agg ctt cac ttt tgc gga ccc aac atc 528
 Ile Gln Ala Ser Ser Ile Phe Arg Leu His Phe Cys Gly Pro Asn Ile
 165 170 175
 atc aac cac ttc ttc tgc gac ctc cca cca gtc ctg gct ctg tct tgc 576
 Ile Asn His Phe Phe Cys Asp Leu Pro Pro Val Leu Ala Leu Ser Cys
 180 185 190

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tct gac acc ttc ctc agt caa gtg gtg aat ttc ctc gtg gtg gtc act 624
Ser Asp Thr Phe Leu Ser Gln Val Val Asn Phe Leu Val Val Val Thr
195 200 205

gtc gga gga aca tog ttc ctc caa ctc ctt atc tcc tat ggt tac ata 672
Val Gly Gly Thr Ser Phe Leu Gln Leu Leu Ile Ser Tyr Gly Tyr Ile
210 215 220

gtg tct gcg gtc ctg aag atc cct tca gca gag ggc cga tgg aaa gcc 720
Val Ser Ala Val Leu Lys Ile Pro Ser Ala Glu Gly Arg Trp Lys Ala
225 230 235 240

tgc aac acg tgt gcc tgc cat ctg atg gtg gtg act ctg ctg ttt ggg 768
Cys Asn Thr Cys Ala Ser His Leu Met Val Val Thr Leu Leu Phe Gly
245 250 255

aca gcc ctt ttc gtg tac ttg cga ccc agc tcc agc tac ttg cta gcc 816
Thr Ala Leu Phe Val Tyr Leu Arg Pro Ser Ser Ser Tyr Leu Leu Gly
260 265 270

agg gac aag gtg gtg tct gtt ttc tat tca ttg gtg atc ccc atg ctg 864
Arg Asp Lys Val Val Ser Val Phe Tyr Ser Leu Val Ile Pro Met Leu
275 280 285

aac cct ctc att tac agt ttg agg aac aaa gag atc aag gat gcc ctg 912
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Leu
290 295 300

tgg aag gtg ttg gaa agg aag aag gtg ttt tct tag 948
Trp Lys Val Leu Glu Arg Lys Lys Val Phe Ser
305 310 315

<210> 206
<211> 313
<212> PRT
<213> Homo Sapiens

<400> 206
Met Ser Ile Thr Lys Ala Trp Asn Ser Ser Ser Val Thr Met Phe Ile
1 5 10 15
Leu Leu Gly Phe Thr Asp His Pro Glu Leu Gln Ala Leu Leu Phe Val
20 25 30
Thr Phe Leu Gly Ile Tyr Leu Thr Thr Leu Ala Trp Asn Leu Ala Leu
35 40 45
Ile Phe Leu Ile Arg Gly Asp Thr His Leu His Thr Pro Met Tyr Phe
50 55 60
Phe Leu Ser Asn Leu Ser Phe Ile Asp Ile Cys Tyr Ser Ser Ala Val
65 70 75 80

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Ala Pro Asn Met Leu Thr Asp Phe Phe Trp Glu Gln Lys Thr Ile Ser
 85 90 95
 Phe Val Gly Cys Ala Ala Gln Phe Phe Phe Val Gly Met Gly Leu
 100 105 110
 Ser Glu Cys Leu Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala
 115 120 125
 Ile Ser Ser Pro Leu Leu Tyr Pro Thr Ile Met Thr Gln Gly Leu Cys
 130 135 140
 Thr Arg Met Val Val Gly Ala Tyr Val Gly Gly Phe Leu Ser Ser Leu
 145 150 155 160
 Ile Gln Ala Ser Ser Ile Phe Arg Leu His Phe Cys Gly Pro Asn Ile
 165 170 175
 Ile Asn His Phe Phe Cys Asp Leu Pro Pro Val Leu Ala Leu Ser Cys
 180 185 190
 Ser Asp Thr Phe Leu Ser Gln Val Val Asn Phe Leu Val Val Val Thr
 195 200 205
 Val Gly Gly Thr Ser Phe Leu Gln Leu Leu Ile Ser Tyr Gly Tyr Ile
 210 215 220
 Val Ser Ala Val Leu Lys Ile Pro Ser Ala Glu Gly Arg Trp Lys Ala
 225 230 235 240
 Cys Asn Thr Cys Ala Ser His Leu Met Val Val Thr Leu Leu Phe Gly
 245 250 255
 Thr Ala Leu Phe Val Tyr Leu Arg Pro Ser Ser Ser Tyr Leu Leu Gly
 260 265 270
 Arg Asp Lys Val Val Ser Val Phe Tyr Ser Leu Val Ile Pro Met Leu
 275 280 285
 Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Leu
 290 295 300
 Trp Lys Val Leu Glu Arg Lys Lys Val Phe Ser
 305 310 315
 <210> 207

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<211> 936
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1) .. (933)
 <223>

<400> 207
 atg gag atg gaa aac tgc acc agg gta aaa gaa ttt att ttc ctt ggc 48
 Met Glu Met Glu Asn Cys Thr Arg Val Lys Glu Phe Ile Phe Leu Gly
 1 5 10 15
 ctg acc cag aat cgg gaa gtg agc tta gtc tta ttt ctt ttc cta ctc 96
 Leu Thr Gln Asn Arg Glu Val Ser Leu Val Leu Phe Leu Phe Leu Leu
 20 25 30
 ttg gtg tat gtg aca act ttg ctg gga aac ctc ctc atc atg gtc act 144
 Leu Val Tyr Val Thr Thr Leu Leu Gly Asn Leu Leu Ile Met Val Thr
 35 40 45
 gtt acc tgt gaa tct cgc ctt cac acg ccc atg tat ttt ttg ctc cat 192
 Val Thr Cys Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu His
 50 55 60
 aat tta tct att gcc gat atc tgc ttc tot tcc atc aca gtg ccc aag 240
 Asn Leu Ser Ile Ala Asp Ile Cys Phe Ser Ile Thr Val Pro Lys
 65 70 75 80
 gtt ctg gtg gac ctt ctg tct gaa aga aag acc atc tcc ttc aat cat 288
 Val Leu Val Asp Leu Leu Ser Glu Arg Lys Thr Ile Ser Phe Asn His
 85 90 95
 tgc ttc act cag atg ttt cta ttc cac ctt att gga ggg gtg gat gta 336
 Cys Phe Thr Gln Met Phe Leu Phe His Leu Ile Gly Gly Val Asp Val
 100 105 110
 ttt tct ctt tgg gtg atg gca ttg gat cga tat gtg gcc atc tcc aag 384
 Phe Ser Leu Ser Val Met Ala Leu Asp Arg Tyr Val Ala Ile Ser Lys
 115 120 125
 ccc ctg cac tat cgg act atc atg agt aga gac cat tgc att ggg ctc 432
 Pro Leu His Tyr Ala Thr Ile Met Ser Arg Asp His Cys Ile Gly Leu
 130 135 140
 aca gtg gct gcc tgg ttg ggg ggc ttt gtc cac tcc atc gtg cag att 480
 Thr Val Ala Ala Trp Leu Gly Gly Phe Val His Ser Ile Val Gln Ile
 145 150 155 160
 tcc ctg ttg ctc cca ctc cct ttc tgc gga ccc aat gtt ctt gac act 528
 Ser Leu Leu Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Thr
 165 170 175
 ttc tac tgt gat gtc cac cgg gtc ctc aaa ctg gcc cat aca gac att 576
 Phe Tyr Cys Asp Val His Arg Val Leu Lys Leu Ala His Thr Asp Ile
 180 185 190
 ttc ata ctt gaa cta cta atg att tcc aac aat gga ctg ctc acc aca 624
 Phe Ile Leu Glu Leu Leu Met Ile Ser Asn Asn Gly Leu Leu Thr Thr

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195          200          205
ctg tgg ttt ttc ctg ctc ctg gtg tcc tac ata gtc ata tta tca tta      672
Leu Trp Phe Phe Leu Leu Leu Val Ser Tyr Ile Val Ile Leu Ser Leu
210          215          230

ccc aag tct cag gca gga gag ggc agg agg aaa gcc atc tcc acc tgc      720
Pro Lys Ser Gln Ala Gly Glu Gly Arg Arg Lys Ala Ile Ser Thr Cys
225          230          235          240

acc tcc cac atc act gtg gtg acc ctg cat ttc gtg ccc tgc atc tat      768
Thr Ser His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr
245          250          255

gtc tat gcc cgg ccc ttc act gcc ctc ccc atg gat aag gcc atc tct      816
Val Tyr Ala Arg Pro Phe Thr Ala Leu Pro Met Asp Lys Ala Ile Ser
260          265          270

gtc acc ttc act gtc atc tcc cct ctg ctc aac ccc ttg atc tac act      864
Val Thr Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Leu Ile Tyr Thr
275          280          285

ctg agg aac cat gag atg aag tca gcc atg agg aga ctg aag aga aga      912
Leu Arg Asn His Glu Met Lys Ser Ala Met Arg Arg Leu Lys Arg Arg
290          295          300

ctt gtg cct tct gat aga aaa tag      936
Leu Val Pro Ser Asp Arg Lys
305          310

<210> 208
<211> 311
<212> PRT
<213> Homo Sapiens

<400> 208
Met Glu Met Glu Asn Cys Thr Arg Val Lys Glu Phe Ile Phe Leu Gly
1          5          10          15

Leu Thr Gln Asn Arg Glu Val Ser Leu Val Leu Phe Leu Phe Leu Leu
20          25          30

Leu Val Tyr Val Thr Thr Leu Leu Gly Asn Leu Leu Ile Met Val Thr
35          40          45

Val Thr Cys Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu His
50          55          60

Asn Leu Ser Ile Ala Asp Ile Cys Phe Ser Ser Ile Thr Val Pro Lys
65          70          75          80

Val Leu Val Asp Leu Leu Ser Glu Arg Lys Thr Ile Ser Phe Asn His
85          90          95

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Cys Phe Thr Gln Met Phe Leu Phe His Leu Ile Gly Gly Val Asp Val
 100 105 110
 Phe Ser Leu Ser Val Met Ala Leu Asp Arg Tyr Val Ala Ile Ser Lys
 115 120 125
 Pro Leu His Tyr Ala Thr Ile Met Ser Arg Asp His Cys Ile Gly Leu
 130 135 140
 Thr Val Ala Ala Trp Leu Gly Gly Phe Val His Ser Ile Val Gln Ile
 145 150 155 160
 Ser Leu Leu Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Thr
 165 170 175
 Phe Tyr Cys Asp Val His Arg Val Leu Lys Leu Ala His Thr Asp Ile
 180 185 190
 Phe Ile Leu Glu Leu Leu Met Ile Ser Asn Asn Gly Leu Leu Thr Thr
 195 200 205
 Leu Trp Phe Phe Leu Leu Leu Val Ser Tyr Ile Val Ile Leu Ser Leu
 210 215 220
 Pro Lys Ser Gln Ala Gly Glu Gly Arg Arg Lys Ala Ile Ser Thr Cys
 225 230 235 240
 Thr Ser His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr
 245 250 255
 Val Tyr Ala Arg Pro Phe Thr Ala Leu Pro Met Asp Lys Ala Ile Ser
 260 265 270
 Val Thr Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Leu Ile Tyr Thr
 275 280 285
 Leu Arg Asn His Glu Met Lys Ser Ala Met Arg Arg Leu Lys Arg Arg
 290 295 300
 Leu Val Pro Ser Asp Arg Lys
 305 310
 <210> 209
 <211> 945
 <212> DNA
 <213> Homo Sapiens

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<220>
 <221> CDS
 <222> (1)..(542)
 <223>

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<400> 209
atg gac cag atc aac cac act aat gtg aag gag ttt ttc ttc ctg gaa      48
Met Asp Gln Ile Asn His Thr Asn Val Lys Glu Phe Phe Phe Leu Glu
1      5      10      15

ctt aca cgt tcc cga gag ctg gag ttt ttc ttg ttt gtg gtc ttc ttt      96
Leu Thr Arg Ser Arg Glu Leu Glu Phe Phe Leu Phe Val Val Phe Phe
20      25      30

gct gtg tat gta gca aca gtc ctg gga aat gca ctc att gtg gtc act      144
Ala Val Tyr Val Ala Thr Val Leu Gly Asn Ala Leu Ile Val Val Thr
35      40      45

att acc tgt gag tcc cgc cta cac act cct atg tac ttt ctc ctg cgg      192
Ile Thr Cys Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg
50      55      60

aac aaa tca gtc ctg gac atc gtt ttt tca tct atc acc gtc ccc aag      240
Asn Lys Ser Val Leu Asp Ile Val Phe Ser Ile Thr Val Pro Lys
65      70      75

ttc ctg gtg gat ctt tta tca gac agg aaa acc atc tcc tac aat gac      288
Phe Leu Val Asp Leu Leu Ser Asp Arg Lys Thr Ile Ser Tyr Asn Asp
85      90      95

tgc atg gca cag atc ttt ttc ttc cac ttt gct ggt ggg gca gat att      336
Cys Met Ala Gln Ile Phe Phe Phe His Phe Ala Gly Gly Ala Asp Ile
100     105     110

ttt ttc ctc tct gtg atg gcc tat gac aga tac ctt gca atc gcc aag      384
Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Leu Ala Ile Ala Lys
115     120     125

ccc ctg cac tat gtg acc atg atg agg aaa gag gtg tgg gtg gcc ttg      432
Pro Leu His Tyr Val Thr Met Met Arg Lys Glu Val Trp Val Ala Leu
130     135     140

gtg gtg gct tct tgg gtg agt ggt ggt ttg cat tca atc atc cag gta      480
Val Val Ala Ser Trp Val Ser Gly Gly Leu His Ser Ile Ile Gln Val
145     150     155     160

att ctg atg ctt cca ttc ccc ttc tgt ggc ccc aac aca ctg gat gcc      528
Ile Leu Met Leu Pro Phe Pro Phe Cys Gly Pro Asn Thr Leu Asp Ala
165     170     175

ttc tac tgt tat gtg ctc cag gtg gta aaa ctg gcc tgc act gac acc      576
Phe Tyr Cys Tyr Val Leu Gln Val Val Lys Leu Ala Cys Thr Asp Thr
180     185     190

ttt gct ttg gag ctt ttc atg atc tct aac aac gga ctg gtg acc ctg      624
Phe Ala Leu Glu Leu Phe Met Ile Ser Asn Asn Gly Leu Val Thr Leu
195     200     205

ctc tgg ttc ctc ctg ctc ctg ggc tcc tac act gtc att ctg gtg atg      672

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Leu Trp Phe Leu Leu Leu Leu Gly Ser Tyr Thr Val Ile Leu Val Met
210                215                220

ctg aga tcc cac tct ggg gag ggg cgg aac aag gcc ctc tcc acg tgc      720
Leu Arg Ser His Ser Gly Glu Gly Arg Asn Lys Ala Leu Ser Thr Cys
225                230                235                240

acg tcc cac atg ctg gtg gtg act ctt cac ttc gtg cct tgt gtt tac      768
Thr Ser His Met Leu Val Val Thr Leu His Phe Val Pro Cys Val Tyr
245                250                255

atc tac tgc cgg ccc ttc atg acg ctg ccc atg gac aca acc ata tcc      816
Ile Tyr Cys Arg Pro Phe Met Thr Leu Pro Met Asp Thr Thr Ile Ser
260                265                270

att aat aac acg gtc att acc ccc atg ctg aac ccc abc atc tat tcc      864
Ile Asn Asn Thr Val Ile Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser
275                280                285

ctg aga aat caa gag atg aag tca gcc atg cag agg ctg cag agg aga      912
Leu Arg Asn Gln Glu Met Lys Ser Ala Met Gln Arg Leu Gln Arg Arg
290                295                300

ctt ggg cct tcc gag agc aga aca tgg ggg tga      945
Leu Gly Pro Ser Glu Ser Arg Lys Trp Gly
305                310

<210> 210
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 210

Met Asp Gln Ile Asn His Thr Asn Val Lys Glu Phe Phe Phe Leu Glu
1      5      10      15

Leu Thr Arg Ser Arg Glu Leu Glu Phe Phe Leu Phe Val Val Phe Phe
20     25     30

Ala Val Tyr Val Ala Thr Val Leu Gly Asn Ala Leu Ile Val Val Thr
35     40     45

Ile Thr Cys Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg
50     55     60

Asn Lys Ser Val Leu Asp Ile Val Phe Ser Ser Ile Thr Val Pro Lys
65     70     75     80

Phe Leu Val Asp Leu Leu Ser Asp Arg Lys Thr Ile Ser Tyr Asn Asp
85     90     95

Cys Met Ala Gln Ile Phe Phe Phe His Phe Ala Gly Gly Ala Asp Ile
100    105    110

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Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Leu Ala Ile Ala Lys
 115 120 125
 Pro Leu His Tyr Val Thr Met Met Arg Lys Glu Val Trp Val Ala Leu
 130 135 140
 Val Val Ala Ser Trp Val Ser Gly Gly Leu His Ser Ile Ile Gln Val
 145 150 155 160
 Ile Leu Met Leu Pro Phe Pro Phe Cys Gly Pro Asn Thr Leu Asp Ala
 165 170 175
 Phe Tyr Cys Tyr Val Leu Gln Val Val Lys Leu Ala Cys Thr Asp Thr
 180 185 190
 Phe Ala Leu Glu Leu Phe Met Ile Ser Asn Asn Gly Leu Val Thr Leu
 195 200 205
 Leu Trp Phe Leu Leu Leu Leu Gly Ser Tyr Thr Val Ile Leu Val Met
 210 215 220
 Leu Arg Ser His Ser Gly Glu Gly Arg Asn Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Thr Ser His Met Leu Val Val Thr Leu His Phe Val Pro Cys Val Tyr
 245 250 255
 Ile Tyr Cys Arg Pro Phe Met Thr Leu Pro Met Asp Thr Thr Ile Ser
 260 265 270
 Ile Asn Asn Thr Val Ile Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser
 275 280 285
 Leu Arg Asn Gln Glu Met Lys Ser Ala Met Gln Arg Leu Gln Arg Arg
 290 295 300
 Leu Gly Pro Ser Glu Ser Arg Lys Trp Gly
 305 310

<210> 311
 <211> 948
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS

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<222> (1) .. (945)
<223>

<400> 211
 atg gag acg tgg gtg aac cag tcc tac aca gat ggc ttc ttc ctc tta 48
 Met Glu Thr Trp Val Asn Gln Ser Tyr Thr Asp Gly Phe Phe Leu Leu
 1 5 10 15

ggc atc ttc tcc cac agt act gct gac ctt gtc ctc ttc tcc gtg gtt 96
 Gly Ile Phe Ser His Ser Thr Ala Asp Leu Val Leu Phe Ser Val Val
 20 25 30

atg gcg gtc ttc aca gtg gcc ctc tgt ggg aat gtc ctc ctc atc ttc 144
 Met Ala Val Phe Thr Val Ala Leu Cys Gly Asn Val Leu Leu Ile Phe
 35 40 45

ctc atc tac atg gac cct cac ctt cac acc ccc atg tac ttc ttc ctc 192
 Leu Ile Tyr Met Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60

agg cag ctc tcc ctc atg gac ctc atg ttg gtc tgt acc aat gtg cca 240
 Ser Gln Leu Ser Leu Met Asp Leu Met Leu Val Cys Thr Asn Val Pro
 65 70 75 80

aag atg gca gcc aac ttc ctg tct ggc agg aag tcc atc tcc ttt gtg 288
 Lys Met Ala Ala Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Val
 85 90 95

ggc tgt ggc ata caa att ggc ctc ttt gtc tgt ctt gtg gga tct gag 336
 Gly Cys Gly Ile Gln Ile Gly Leu Phe Val Cys Leu Val Gly Ser Glu
 100 105 110

ggg ctc ttg ctg gga ctc atg got tat gac ogo tat gtg gcc att ago 384
 Gly Leu Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser
 115 120 125

cac cca ctt cac tat ccc atc ctc atg aat cag agg gtc tgt ctc cag 432
 His Pro Leu His Tyr Pro Ile Leu Met Asn Gln Arg Val Cys Leu Gln
 130 135 140

att act ggg agc tcc tgg gcc ttt ggg ata atc gat ggc ttg atc cag 480
 Ile Thr Gly Ser Ser Trp Ala Phe Gly Ile Ile Asp Gly Leu Ile Gln
 145 150 155 160

atg gtg gta gta atg aat ttc ccc tac tgt ggc ttg agg aag gtg aac 528
 Met Val Val Val Met Asn Phe Pro Tyr Cys Gly Leu Arg Lys Val Asn
 165 170 175

cat ttc ttc tgt gag atg cta tcc ttg ttg aag ctg gcc tgt gta gac 576
 His Phe Phe Cys Glu Met Leu Ser Leu Leu Lys Leu Ala Cys Val Asp
 180 185 190

aca tcc ctg ttt gag aag gtg ata ttt gct tgc tgt gtc ttc atg ctt 624
 Thr Ser Leu Phe Glu Lys Val Ile Phe Ala Cys Cys Val Phe Met Leu
 195 200 205

ctc ttc coa ttc tcc atc atc gtg gcc tcc tat gct cac att cta ggg 672
 Leu Phe Pro Phe Ser Ile Ile Val Ala Ser Tyr Ala His Ile Leu Gly
 210 215 220

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act gtg ctg caa atg cac tct gct cag gcc tgg aaa aag gcc ctg gcc      720
Thr Val Leu Gln Met His Ser Ala Gln Ala Trp Lys Lys Ala Leu Ala
225                230                235                240

acc tgc tcc tcc cac ctg aca gct gtc acc ctc ttc tat ggg gca gcc      768
Thr Cys Ser Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ala Ala
245                250                255

atg ttc atc tac ctg agg cct agg cac tac cgg gcc ccc agc cat gac      816
Met Phe Ile Tyr Leu Arg Pro Arg His Tyr Arg Ala Pro Ser His Asp
260                265                270

aag gtg gcc tct atc ttc taa acg gtc ctt act ccc atg ctc aac ccc      864
Lys Val Ala Ser Ile Phe Tyr Thr Val Leu Thr Pro Met Leu Asn Pro
275                280                285

ctc att tac agc ttg agg aac agg gag gtg atg ggg gca ctg agg aag      912
Leu Ile Tyr Ser Leu Arg Asn Arg Glu Val Met Gly Ala Leu Arg Lys
290                295                300

ggg ctg gac cgc tgc agg atc ggc agc cag cac tga                      948
Gly Leu Asp Arg Cys Arg Ile Gly Ser Gln His
305                310                315

<210> 212
<211> 315
<212> FRT
<213> Homo Sapiens

<400> 212
Met Glu Thr Trp Val Asn Gln Ser Tyr Thr Asp Gly Phe Phe Leu Leu
1      5      10      15

Gly Ile Phe Ser His Ser Thr Ala Asp Leu Val Leu Phe Ser Val Val
20      25      30

Met Ala Val Phe Thr Val Ala Leu Cys Gly Asn Val Leu Leu Ile Phe
35      40      45

Leu Ile Tyr Met Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu
50      55      60

Ser Gln Leu Ser Leu Met Asp Leu Met Leu Val Cys Thr Asn Val Pro
65      70      75      80

Lys Met Ala Ala Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Val
85      90      95

Gly Cys Gly Ile Gln Ile Gly Leu Phe Val Cys Leu Val Gly Ser Gln
100     105     110

Gly Leu Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser

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115 120 125
 His Pro Leu His Tyr Pro Ile Leu Met Asn Gln Arg Val Cys Leu Gln
 130 135 140
 Ile Thr Gly Ser Ser Trp Ala Phe Gly Ile Ile Asp Gly Leu Ile Gln
 145 150 155 160
 Met Val Val Val Met Asn Phe Pro Tyr Cys Gly Leu Arg Lys Val Asn
 165 170 175
 His Phe Phe Cys Glu Met Leu Ser Leu Leu Lys Leu Ala Cys Val Asp
 180 185 190
 Thr Ser Leu Phe Glu Lys Val Ile Phe Ala Cys Cys Val Phe Met Leu
 195 200 205
 Leu Phe Pro Phe Ser Ile Ile Val Ala Ser Tyr Ala His Ile Leu Gly
 210 215 220
 Thr Val Leu Gln Met His Ser Ala Gln Ala Trp Lys Lys Ala Leu Ala
 225 230 235 240
 Thr Cys Ser Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ala Ala
 245 250 255
 Met Phe Ile Tyr Leu Arg Pro Arg His Tyr Arg Ala Pro Ser His Asp
 260 265 270
 Lys Val Ala Ser Ile Phe Tyr Thr Val Leu Thr Pro Met Leu Asn Pro
 275 280 285
 Leu Ile Tyr Ser Leu Arg Asn Arg Glu Val Met Gly Ala Leu Arg Lys
 290 295 300
 Gly Leu Asp Arg Cys Arg Ile Gly Ser Gln His
 305 310 315
 <210> 213
 <211> 936
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
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 <223>

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PCT/BE01/00162

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<400> 213
atg aaa atc ttc aac agc ccc agc aac tcc agc acc ttc act ggc ttc      48
Met Lys Ile Phe Asn Ser Pro Ser Asn Ser Ser Thr Phe Thr Gly Phe
1      5      10      15

atc ctc ctg ggc ttc cct tgc ccc agg gag ggg cag atc ctc ctc ttt      96
Ile Leu Leu Gly Phe Pro Cys Pro Arg Glu Gly Gln ile Leu Leu Phe
20      25      30

gtg ctc ttc act gtt gtt tac ctc ctg acc ctc atg ggc aat ggt tcc      144
Val Leu Phe Thr Val Val Tyr Leu Leu Thr Leu Met Gly Asn Gly Ser
35      40      45

atc atc tgt get gtg cac tgg gat cag aga ctc cac gcc ccc atg tac      192
Ile Ile Cys Ala Val His Trp Asp Gln Arg Leu His Ala Pro Met Tyr
50      55      60

atc ctg ctc gcc aac ttc tcc ttc ttg gag ata tgt tat gtc acc tcc      240
Ile Leu Leu Ala Asn Phe Ser Phe Leu Glu ile Cys Tyr Val Thr Ser
65      70      75      80

aca gtc ccc agc atg ctg gcc aac ttc ctc tct gac acc aag atc atc      288
Thr Val Pro Ser Met Leu Ala Asn Phe Leu Ser Asp Thr Lys Ile Ile
85      90      95

tcg ttc tct ggc tgc ttc ctc cag ttc tac ttt ttc ttc tcc ttg ggc      336
Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly
100      105      110

tct aca gaa tgc ttt ttc ctg gca gtt atg gca ttt gat cga tac ctt      384
Ser Thr Glu Cys Phe Phe Leu Ala Val Met Ala Phe Asp Arg Tyr Leu
115      120      125

gcc atc tgt cgg cct cta cgc tat cca acc att atg acc aga cgt ctc      432
Ala Ile Cys Arg Pro Leu Arg Tyr Pro Thr Ile Met Thr Arg Arg Leu
130      135      140

tgt acc aat ctt gtg gtc aat tgc tgg gta ctt ggt ttc atc tgg ttc      480
Cys Thr Asn Leu Val Val Asn Cys Trp Val Leu Gly Phe Ile Trp Phe
145      150      155      160

ttg att cct atc gtc aac atc tcc caa atg tcc ttc tgt gga tct agg      528
Leu Ile Pro Ile Val Asn Ile Ser Gln Met Ser Phe Cys Gly Ser Arg
165      170      175

att att gac cac ttc cta tgt gac cca gct cct ctt cta act ctc act      576
Ile Ile Asp His Phe Leu Cys Asp Pro Ala Pro Leu Leu Thr Leu Thr
180      185      190

tgc aaa aaa ggc cct gtg ata gag ctt gtc ttt tct gtc tta agt cct      624
Cys Lys Lys Gly Pro Val Ile Glu Leu Val Phe Ser Val Leu Ser Pro
195      200      205

ctg cct gtc ttt atg ctc ttt ctc ttc att gtg ggg tcc tat gct ctg      672
Leu Pro Val Phe Met Leu Phe Leu Phe Ile Val Gly Ser Tyr Ala Leu
210      215      220

gtc gtg aga gct gtg ttg agg gtc cct tca gca gct ggg aga aga aag      720
Val Val Arg Ala Val Leu Arg Val Pro Ser Ala Ala Gly Arg Arg Lys
225      230      235      240

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got ttc tcc acc tgt ggg tct cac ctg got gtg gtt tca ctg ttc tac      768
Ala Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Ser Leu Phe Tyr
      245                      250                      255

ggc tca gta ctg gtc atg tat ggg agc cca cca tct aag aat gaa got      816
Gly Ser Val Leu Val Met Tyr Gly Ser Pro Pro Ser Lys Asn Glu Ala
      260                      265                      270

gga aag cag aag act gtg act ctg ttt tat tct gtt gtt acc cca ctg      864
Gly Lys Gln Lys Thr Val Thr Leu Phe Tyr Ser Val Val Thr Pro Leu
      275                      280                      285

ctt aac cct gtg ata tat agt ctt agg aac aaa gat atg aga aaa got      912
Leu Asn Pro Val Ile Tyr Ser Leu Arg Asn Lys Asp Met Arg Lys Ala
      290                      295                      300

ctg aag aaa ttt tgg gga aca taa      936
Leu Lys Lys Phe Trp Gly Thr
      305                      310

<210> 214
<211> 311
<212> PRT
<213> Homo Sapiens

<400> 214
Met Lys Ile Phe Asn Ser Pro Ser Asn Ser Ser Thr Phe Thr Gly Phe
1      5      10      15

Ile Leu Leu Gly Phe Pro Cys Pro Arg Glu Gly Gln Ile Leu Leu Phe
20      25      30

Val Leu Phe Thr Val Val Tyr Leu Leu Thr Leu Met Gly Asn Gly Ser
35      40      45

Ile Ile Cys Ala Val His Trp Asp Gln Arg Leu His Ala Pro Met Tyr
50      55      60

Ile Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Cys Tyr Val Thr Ser
65      70      75      80

Thr Val Pro Ser Met Leu Ala Asn Phe Leu Ser Asp Thr Lys Ile Ile
85      90      95

Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly
100      105      110

Ser Thr Glu Cys Phe Phe Leu Ala Val Met Ala Phe Asp Arg Tyr Leu
115      120      125

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WO 02/24726

PCT/BE01/00162

Ala Ile Cys Arg Pro Leu Arg Tyr Pro Thr Ile Met Thr Arg Arg Leu
130 135 140

Cys Thr Asn Leu Val Val Asn Cys Trp Val Leu Gly Phe Ile Trp Phe
145 150 155 160

Leu Ile Pro Ile Val Asn Ile Ser Gln Met Ser Phe Cys Gly Ser Arg
165 170 175

Ile Ile Asp His Phe Leu Cys Asp Pro Ala Pro Leu Leu Thr Leu Thr
180 185 190

Cys Lys Lys Gly Pro Val Ile Glu Leu Val Phe Ser Val Leu Ser Pro
195 200 205

Leu Pro Val Phe Met Leu Phe Leu Phe Ile Val Gly Ser Tyr Ala Leu
210 215 220

Val Val Arg Ala Val Leu Arg Val Pro Ser Ala Ala Gly Arg Arg Lys
225 230 235 240

Ala Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Ser Leu Phe Tyr
245 250 255

Gly Ser Val Leu Val Met Tyr Gly Ser Pro Pro Ser Lys Asn Glu Ala
260 265 270

Gly Lys Gln Lys Thr Val Thr Leu Phe Tyr Ser Val Val Thr Pro Leu
275 280 285

Leu Asn Pro Val Ile Tyr Ser Leu Arg Asn Lys Asp Met Arg Lys Ala
290 295 300

Leu Lys Lys Phe Trp Gly Thr
305 310

<210> 215
<211> 993
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1) .. (990)
<223>

<400> 215
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WO 02/24726

PCT/BE01/00162

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Met Phe Phe Ile Ile His Ser Leu Val Thr Ser Val Phe Leu Thr Ala
1      5      10      15
ttg gga ccc cag aac aga aca atg cat ttt gtg act gag ttt gtc ctc      96
Leu Gly Pro Gln Asn Arg Thr Met His Phe Val Thr Glu Phe Val Leu
20      25      30
ctg ggt ttc cat ggt caa agg gag atg cag agc tgc ttc ttc tca ttc      144
Leu Gly Phe His Gly Gln Arg Glu Met Gln Ser Cys Phe Phe Ser Phe
35      40      45
atc ctg gtt ctc tat ctc ctg aca ctg cta ggg aat gga gct att gtc      192
Ile Leu Val Leu Tyr Leu Leu Thr Leu Leu Gly Asn Gly Ala Ile Val
50      55      60
tgt gca gtg aaa ttg gac agg cgg ctc cac aca ccc atg tac atc ctt      240
Cys Ala Val Lys Leu Asp Arg Arg Leu His Thr Pro Met Tyr Ile Leu
65      70      75      80
ctg gga aac ttt gcc ttt cta gag atc tgg tac att tcc tcc act gtc      288
Leu Gly Asn Phe Ala Phe Leu Glu Ile Trp Tyr Ile Ser Ser Thr Val
85      90      95
cca aac atg cta gtc aat atc ctc tct gag att aaa acc atc tcc ttc      336
Pro Asn Met Leu Val Asn Ile Leu Ser Glu Ile Lys Thr Ile Ser Phe
100      105      110
tct ggt tgc ttc ctg caa ttc tat ttc ttt ttt tca ctg ggt aca aca      384
Ser Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly Thr Thr
115      120      125
gag tgt ttc ttt tta tca gtt atg gct tat gat cgg tac ctg gcc atc      432
Glu Cys Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Leu Ala Ile
130      135      140
tgt cgt cca tta cac tac ccc tcc atc atg act ggg aag ttc tgt ata      480
Cys Arg Pro Leu His Tyr Pro Ser Ile Met Thr Gly Lys Phe Cys Ile
145      150      155      160
att ctg gtc tgt gta tgc tgg gta ggc gga ttt ctc tgc tat cca gtc      528
Ile Leu Val Cys Val Cys Trp Val Gly Gly Phe Leu Cys Tyr Pro Val
165      170      175
cct att gtt ctt atc tcc caa ctt ccc ttc tgt ggg ccc aac atc att      576
Pro Ile Val Leu Ile Ser Gln Leu Pro Phe Cys Gly Pro Asn Ile Ile
180      185      190
gac cae ttg gtg tgt gac cca ggc cca ttg ttt gca ctg gcc tgc atc      624
Asp His Leu Val Cys Asp Pro Gly Pro Leu Phe Ala Leu Ala Cys Ile
195      200      205
tct gct cct tcc aat gag ctt atc tgt tac acc ttc aac tog atg att      672
Ser Ala Pro Ser Thr Glu Leu Ile Cys Tyr Thr Phe Asn Ser Met Ile
210      215      220
atc ttt ggg ccc ttc ctc tcc atc ttg gga tct tac act ctg gtc atc      720
Ile Phe Gly Pro Phe Leu Ser Ile Leu Gly Ser Tyr Thr Leu Val Ile
225      230      235      240
aga gct gtg ctt tgt att ccc tct ggt gct ggt cga act aaa gct ttc      768
Arg Ala Val Leu Cys Ile Pro Ser Gly Ala Gly Arg Thr Lys Ala Phe

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PCT/BE01/00162

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                245                250                255
tcc aca tgt ggg tcc cac cta atg gtg gtg tct cta ttc tat gga acc      816
Ser Thr Cys Gly Ser His Leu Met Val Val Ser Leu Phe Tyr Gly Thr
                260                265                270

ctt atg gtg atg tat gtg agc cca aca tca ggg aac cca gca gga atg      864
Leu Met Val Met Tyr Val Ser Pro Thr Ser Gly Asn Pro Ala Gly Met
                275                280                285

cag aag atc atc act ctg gta tac aca gca atg act cca ttc tta aat      912
Gln Lys Ile Ile Thr Leu Val Tyr Thr Ala Met Thr Pro Phe Leu Asn
                290                295                300

ccc ctt atc tat agt ctt cga aac aaa gac atg aaa gat gct cta aag      960
Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Asp Ala Leu Lys
                305                310                315                320

aga gtc ctg ggg tta aca gtt agc caa aac tga      993
Arg Val Leu Gly Leu Thr Val Ser Gln Asn
                325                330

<210> 215
<211> 330
<212> PRT
<213> Homo Sapiens

<400> 216
Met Phe Phe Ile Ile His Ser Leu Val Thr Ser Val Phe Leu Thr Ala
1 5 10 15

Leu Gly Pro Gln Asn Arg Thr Met His Phe Val Thr Glu Phe Val Leu
20 25 30

Leu Gly Phe His Gly Gln Arg Glu Met Gln Ser Cys Phe Phe Ser Phe
35 40 45

Ile Leu Val Leu Tyr Leu Leu Thr Leu Leu Gly Asn Gly Ala Ile Val
50 55 60

Cys Ala Val Lys Leu Asp Arg Arg Leu His Thr Pro Met Tyr Ile Leu
65 70 75 80

Leu Gly Asn Phe Ala Phe Leu Glu Ile Trp Tyr Ile Ser Ser Thr Val
85 90 95

Pro Asn Met Leu Val Asn Ile Leu Ser Glu Ile Lys Thr Ile Ser Phe
100 105 110

Ser Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly Thr Thr
115 120 125

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PCT/BE01/00162

Glu Cys Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Leu Ala Ile
 130 135 140
 Cys Arg Pro Leu His Tyr Pro Ser Ile Met Thr Gly Lys Phe Cys Ile
 145 150 155 160
 Ile Leu Val Cys Val Cys Trp Val Gly Gly Phe Leu Cys Tyr Pro Val
 165 170 175
 Pro Ile Val Leu Ile Ser Gln Leu Pro Phe Cys Gly Pro Asn Ile Ile
 180 185 190
 Asp His Leu Val Cys Asp Pro Gly Pro Leu Phe Ala Leu Ala Cys Ile
 195 200 205
 Ser Ala Pro Ser Thr Glu Leu Ile Cys Tyr Thr Phe Asn Ser Met Ile
 210 215 220
 Ile Phe Gly Pro Phe Leu Ser Ile Leu Gly Ser Tyr Thr Leu Val Ile
 225 230 235 240
 Arg Ala Val Leu Cys Ile Pro Ser Gly Ala Gly Arg Thr Lys Ala Phe
 245 250 255
 Ser Thr Cys Gly Ser His Leu Met Val Val Ser Leu Phe Tyr Gly Thr
 260 265 270
 Leu Met Val Met Tyr Val Ser Pro Thr Ser Gly Asn Pro Ala Gly Met
 275 280 285
 Gln Lys Ile Ile Thr Leu Val Tyr Thr Ala Met Thr Pro Phe Leu Asn
 290 295 300
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Asp Ala Leu Lys
 305 310 315 320
 Arg Val Leu Gly Leu Thr Val Ser Gln Asn
 325 330

<210> 217
 <211> 975
 <212> DNA
 <213> Homo Sapiens
 <230>
 <221> CDS
 <222> (1)..(972)

WO 02/24726

PCT/BE01/00162

<223>

<400> 217

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atg tct ttc ttc ttt gta gac tta aga ccc atg aac agg tca gca aca      48
Met Ser Phe Phe Phe Val Asp Ileu Arg Pro Met Asn Arg Ser Ala Thr
1      5      10      15

cac atc gtg aca gag ttt att ctc ctg gga ttc cct ggt tgc tgg aag      96
His Ile Val Thr Glu Phe Ile Leu Leu Gly Phe Pro Gly Cys Trp Lys
20     25     30

att cag att ttc ctc ttc tca ttg ttt ttg gtg att tat gtc ttg acc      144
Ile Gln Ile Phe Leu Phe Ser Leu Phe Leu Val Ile Tyr Val Leu Thr
35     40     45

ttg ctg gga aat gga gcc atc atc tat gca gtg aga tgc aac cca cta      192
Leu Leu Gly Asn Gly Ala Ile Ile Tyr Ala Val Arg Cys Asn Pro Leu
50     55     60

cta cac acc ccc atg tac ttt ctg ctg gga aat ttt gcc ttc ctt gag      240
Leu His Thr Pro Met Tyr Phe Leu Leu Gly Asn Phe Ala Phe Leu Glu
65     70     75     80

atc tgg tat gtg tcc tcc act att cct aac atg cta gtc aac att ctc      288
Ile Trp Tyr Val Ser Ser Thr Ile Pro Asn Met Leu Val Asn Ile Leu
85     90     95

tcc aag acc aag gcc atc tca ttt tct ggg tgc ttc ctc cag ttc tat      336
Ser Lys Thr Lys Ala Ile Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr
100    105    110

ttc ttc ttt tca ctg gga aca act gaa tgt ctc ttt ctg gca gta atg      384
Phe Phe Phe Ser Leu Gly Thr Thr Glu Cys Leu Phe Leu Ala Val Met
115    120    125

gct tat gat cga tac ctg gcc atc tgc cac cca ctg cag tac cct gcc      432
Ala Tyr Asp Arg Tyr Leu Ala Ile Cys His Pro Leu Gln Tyr Pro Ala
130    135    140

atc atg act gta agg ttc tgt ggt aag ctg gtg tct ttc tgt tgg ctt      480
Ile Met Thr Val Arg Phe Cys Gly Lys Leu Val Ser Phe Cys Trp Leu
145    150    155    160

att gga ttc ctt gga tac cca att ccc att ttc tac atc tcc caa ctc      528
Ile Gly Phe Leu Gly Tyr Pro Ile Pro Ile Phe Tyr Ile Ser Gln Leu
165    170    175

ccc ttc tgt ggt cct aat atc att gat cac ttc ctg tgt gac atg gac      576
Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Leu Cys Asp Met Asp
180    185    190

cca ttg atg gct cta tcc tgt gcc cca gct ccc ata act gaa tgt att      624
Pro Leu Met Ala Leu Ser Cys Ala Pro Ala Pro Ile Thr Glu Cys Ile
195    200    205

ttc tat act cag agc tcc ctt gtc ctc ttt ttc act agt atg tac att      672
Phe Tyr Thr Gln Ser Ser Leu Val Leu Phe Phe Thr Ser Met Tyr Ile
210    215    220

ctt cga tcc tat atc ctg tta cta aca gct gtt ttt cag gtc cct tct      720

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PCT/BE01/00162

Leu Arg Ser Tyr Ile Leu Leu Leu Thr Ala Val Phe Gln Val Pro Ser
 225 230 235 240
 gca gct ggt cgg aga aaa gcc ttc tct acc tgt ggt tct cat ttg gtt 768
 Ala Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys Gly Ser His Leu Val
 245 250 255
 gtg gta tct ctt ttc tat ggg aca gtc atg gta atg tat gta agt cct 816
 Val Val Ser Leu Phe Tyr Gly Thr Val Met Val Met Tyr Val Ser Pro
 260 265 270
 aca tat ggg atc cca act tta ttg cag aag atc atc aca ctg gta tat 864
 Thr Tyr Gly Ile Pro Thr Leu Leu Gln Lys Ile Leu Thr Leu Val Tyr
 275 280 285
 tca gta acg act cct ctt ttt aat cct ctg atc tat act ctt cgt aat 912
 Ser Val Thr Thr Pro Leu Phe Asn Pro Leu Ile Tyr Thr Leu Arg Asn
 290 295 300
 aag gac atg aaa atc gct ctg aga aat gtc ctg ttt gga atg aga att 960
 Lys Asp Met Lys Leu Ala Leu Arg Asn Val Leu Phe Gly Met Arg Ile
 305 310 315 320
 cgt caa aat tgg tga 975
 Arg Gln Asn Ser

<210> 316
 <211> 324
 <212> PRT
 <213> Homo Sapiens

<400> 318

Met Ser Phe Phe Phe Val Asp Leu Arg Pro Met Asn Arg Ser Ala Thr
 1 5 10 15
 His Ile Val Thr Glu Phe Ile Leu Leu Gly Phe Pro Gly Cys Trp Lys
 20 25 30
 Ile Gln Ile Phe Leu Phe Ser Leu Phe Leu Val Ile Tyr Val Leu Thr
 35 40 45
 Leu Leu Gly Asn Gly Ala Ile Ile Tyr Ala Val Arg Cys Asn Pro Leu
 50 55 60
 Leu His Thr Pro Met Tyr Phe Leu Leu Gly Asn Phe Ala Phe Leu Glu
 65 70 75 80
 Ile Trp Tyr Val Ser Ser Thr Ile Pro Asn Met Leu Val Asn Ile Leu
 85 90 95
 Ser Lys Thr Lys Ala Ile Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr
 100 105 110

WO 02/24726

PCT/BE01/00162

Phe Phe Phe Ser Leu Gly Thr Thr Glu Cys Leu Phe Leu Ala Val Met
 115 120 125
 Ala Tyr Asp Arg Tyr Leu Ala Ile Cys His Pro Leu Gln Tyr Pro Ala
 130 135 140
 Ile Met Thr Val Arg Phe Cys Gly Lys Leu Val Ser Phe Cys Trp Leu
 145 150 155 160
 Ile Gly Phe Leu Gly Tyr Pro Ile Pro Ile Phe Tyr Ile Ser Gln Leu
 165 170 175
 Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Leu Cys Asp Met Asp
 180 185 190
 Pro Leu Met Ala Leu Ser Cys Ala Pro Ala Pro Ile Thr Glu Cys Ile
 195 200 205
 Phe Tyr Thr Gln Ser Ser Leu Val Leu Phe Phe Thr Ser Met Tyr Ile
 210 215 220
 Leu Arg Ser Tyr Ile Leu Leu Leu Thr Ala Val Phe Gln Val Pro Ser
 225 230 235 240
 Ala Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys Gly Ser His Leu Val
 245 250 255
 Val Val Ser Leu Phe Tyr Gly Thr Val Met Val Met Tyr Val Ser Pro
 260 265 270
 Thr Tyr Gly Ile Pro Thr Leu Leu Gln Lys Ile Leu Thr Leu Val Tyr
 275 280 285
 Ser Val Thr Thr Pro Leu Phe Asn Pro Leu Ile Tyr Thr Leu Arg Asn
 290 295 300
 Lys Asp Met Lys Leu Ala Leu Arg Asn Val Leu Phe Gly Met Arg Ile
 305 310 315 320
 Arg Gln Asn Ser

<210> 219
 <211> 933
 <212> DNA

WO 02/24726

PCT/BE01/00162

<213> Homo Sapiens

<220>

<221> CDS

<222> {1}..(930)

<223>

<400> 219

atg gca gag atg aac ctc acc ttg gtg acc gag ttc ctc ctt att gca	48
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1 5 10 15	
ttc act gaa tat cct gaa tgg gca ctc cct ctc ttc ctc ttg tta tta	96
Phe Thr Glu Tyr Pro Glu Trp Ala Leu Pro Leu Phe Leu Leu Leu Leu	
20 25 30	
ttt atg tat ctc atc acc gta ttg ggg aac tta gag atg att att ctg	144
Phe Met Tyr Leu Ile Thr Val Leu Gly Asn Leu Glu Met Ile Ile Leu	
35 40 45	
atc ctc atg gat cac cag ctc cac gct cca atg tat ttc ctt ctg agt	192
Ile Leu Met Asp His Gln Leu His Ala Pro Met Tyr Phe Leu Leu Ser	
50 55 60	
cac ctc gct ttc atg gac gtc tgc tac tca tot atc act gtc ccc cag	240
His Leu Ala Phe Met Asp Val Cys Tyr Ser Ser Ile Thr Val Pro Gln	
65 70 75 80	
atg ctg gca gtg ctg ctg gag cat ggg gca gct tta tot tac aca cgc	288
Met Leu Ala Val Leu Leu Glu His Gly Ala Ala Leu Ser Tyr Thr Arg	
85 90 95	
tgt gct gct cag ttc ttt ctg ttc acc ttc ttt ggt tcc atc gac tgc	336
Cys Ala Ala Gln Phe Phe Leu Phe Thr Phe Phe Gly Ser Ile Asp Cys	
100 105 110	
tac ctc ttg gcc ctc atg gcc tat gac cgc tac ttg gct gtg tgc cag	384
Tyr Leu Leu Ala Leu Met Ala Tyr Asp Arg Tyr Leu Ala Val Cys Gln	
115 120 125	
ccc ctg ctt tat gtc acc atc ctg aca cag cag gcc cgc ttg agt ctt	432
Pro Leu Leu Tyr Val Thr Ile Leu Thr Gln Gln Ala Arg Leu Ser Leu	
130 135 140	
gtg gct ggg gct tac gtt gct ggt ctc atc agt gcc ttg gtg cgg aca	480
Val Ala Gly Ala Tyr Val Ala Gly Leu Ile Ser Ala Leu Val Arg Thr	
145 150 155 160	
gtc tca gcc ttc act ctc tcc ttc tgt gga acc agt gag att gac ttt	528
Val Ser Ala Phe Thr Leu Ser Phe Cys Gly Thr Ser Glu Ile Asp Phe	
165 170 175	
att ttc tgt gac ctc cct cct ctg tta aag ttg acc tgt ggg gag agc	576
Ile Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Thr Cys Gly Glu Ser	
180 185 190	
tac act caa gaa gtg ctg att att atg ttt gcc att ttt gtc atc cct	624
Tyr Thr Gln Glu Val Leu Ile Ile Met Phe Ala Ile Phe Val Ile Pro	
195 200 205	

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get tcc atg gtg gtg atc ttg gtg tcc tac ctg ttt atc atc gtg gcc      672
Ala Ser Met Val Val Ile Leu Val Ser Tyr Leu Phe Ile Ile Val Ala
210                215                220

atc atg ggg atc cot get gga agc cag gcc aag acc ttc tcc acc tgc      720
Ile Met Gly Ile Pro Ala Gly Ser Gln Ala Lys Thr Phe Ser Thr Cys
225                230                235                240

acc tcc cac ctc act get gtg tca ctc ttc ttt ggt acc ctc atc ttc      768
Thr Ser His Leu Thr Ala Val Ser Leu Phe Phe Gly Thr Leu Ile Phe
245                250                255

atg tac ttg aga ggt aac tca gat cag tct tcy gag aag aat cgg gta      816
Met Tyr Leu Arg Gly Asn Ser Asp Gln Ser Ser Glu Lys Asn Arg Val
260                265                270

gtg tct gtg ctt tac aca gag gtc atc ccc atg ttg aat ccc ctc atc      864
Val Ser Val Leu Tyr Thr Glu Val Ile Pro Met Leu Asn Pro Leu Ile
275                280                285

tac agc ctg agg aac aag gaa gtg aag gag gcc ctg aga aaa att ctc      912
Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Leu Arg Lys Ile Leu
290                295                300

aat aga gcc aag ttg tcc taa
Asn Arg Ala Lys Leu Ser
305                310

<210> 220
<211> 310
<212> PRT
<213> Homo Sapiens

<400> 220
Met Ala Glu Met Asn Leu Thr Leu Val Thr Glu Phe Leu Leu Ile Ala
1          5          10          15

Phe Thr Glu Tyr Pro Glu Trp Ala Leu Pro Leu Phe Leu Leu Leu Leu
20          25          30

Phe Met Tyr Leu Ile Thr Val Leu Gly Asn Leu Glu Met Ile Ile Leu
35          40          45

Ile Leu Met Asp His Glu Leu His Ala Pro Met Tyr Phe Leu Leu Ser
50          55          60

His Leu Ala Phe Met Asp Val Cys Tyr Ser Ser Ile Thr Val Pro Gln
65          70          75          80

Met Leu Ala Val Leu Leu Glu His Gly Ala Ala Leu Ser Tyr Thr Arg
85          90          95

Cys Ala Ala Gln Phe Phe Leu Phe Thr Phe Phe Gly Ser Ile Asp Cys

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100 105 110
 Tyr Leu Leu Ala Leu Met Ala Tyr Asp Arg Tyr Leu Ala Val Cys Gln
 115 120 125
 Pro Leu Leu Tyr Val Thr Ile Leu Thr Gln Gln Ala Arg Leu Ser Leu
 130 135 140
 Val Ala Gly Ala Tyr Val Ala Gly Leu Ile Ser Ala Leu Val Arg Thr
 145 150 155 160
 Val Ser Ala Phe Thr Leu Ser Phe Cys Gly Thr Ser Glu Ile Asp Phe
 165 170 175
 Ile Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Thr Cys Gly Glu Ser
 180 185 190
 Tyr Thr Gln Glu Val Leu Ile Ile Met Phe Ala Ile Phe Val Ile Pro
 195 200 205
 Ala Ser Met Val Val Ile Leu Val Ser Tyr Leu Phe Ile Ile Val Ala
 210 215 220
 Ile Met Gly Ile Pro Ala Gly Ser Gln Ala Lys Thr Phe Ser Thr Cys
 225 230 235 240
 Thr Ser His Leu Thr Ala Val Ser Leu Phe Phe Gly Thr Leu Ile Phe
 245 250 255
 Met Tyr Leu Arg Gly Asn Ser Asp Gln Ser Ser Glu Lys Asn Arg Val
 260 265 270
 Val Ser Val Leu Tyr Thr Glu Val Ile Pro Met Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Leu Arg Lys Ile Leu
 290 295 300
 Asn Arg Ala Lys Leu Ser
 305 310
 <210> 221
 <211> 936
 <212> DNA
 <213> Homo Sapiens
 <220>

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<221> CDS
 <222> (1)..(933)
 <223>

<400> 221
 atg ggg act gga aat gac acc act gtg gta gag ttt act ctt tgg ggg 48
 Met Gly Thr Gly Asn Asp Thr Thr Val Val Glu Phe Thr Leu Leu Gly
 1 5 10 15
 tta tct gag gat act aca gtt tgt gct att tta ttt ctt gtg ttt cta 96
 Leu Ser Glu Asp Thr Thr Val Cys Ala Ile Leu Phe Leu Val Phe Leu
 20 25 30
 gga att tat gtt gtc acc tta atg ggt aat atc agc ata att gta ttg 144
 Gly Ile Tyr Val Val Thr Leu Met Gly Asn Ile Ser Ile Ile Val Leu
 35 40 45
 atc aga aga agt cat cat ctt cat aca ccc atg tac att ttc ctc tgc 192
 Ile Arg Arg Ser His His Leu His Thr Pro Met Tyr Ile Phe Leu Cys
 50 55 60
 cat ttg gcc ttt gta gac att ggg tac tcc tca tca gtc aca cct gtc 240
 His Leu Ala Phe Val Asp Ile Gly Tyr Ser Ser Val Thr Pro Val
 65 70 75 80
 atg ctc atg agc ttc cta agg aza gaa acc tct ctc cct gtt gct ggt 288
 Met Leu Met Ser Phe Leu Arg Lys Glu Thr Ser Leu Pro Val Ala Gly
 85 90 95
 tgt gtg gcc cag ctc tgt tct gta gtg acg ttt ggt acg gcc gag tgc 336
 Cys Val Ala Gln Leu Cys Ser Val Val Thr Phe Gly Thr Ala Glu Cys
 100 105 110
 ttc ctg ctg gct gcc atg gcc tat gat cgc tat gtg gcc atc tgc tca 384
 Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser
 115 120 125
 ccc ctg ctc tac tct acc tgc atg tcc cct gga gtc tgc atc atc tta 432
 Pro Leu Leu Tyr Ser Thr Cys Met Ser Pro Gly Val Cys Ile Ile Leu
 130 135 140
 gtg gcc atg tcc tac ctg ggt gga tgt gtg aat gct tgg aca ttc att 480
 Val Gly Met Ser Tyr Leu Gly Gly Cys Val Asn Ala Trp Thr Phe Ile
 145 150 155 160
 ggc tgc tta tta aga ctg tcc ttc tgt ggg cca aat aaa gtc aat cac 528
 Gly Cys Leu Leu Arg Leu Ser Phe Cys Gly Pro Asn Lys Val Asn His
 165 170 175
 ttt ttc tgt gac tat tca cca ctt ttg aag ctt gct tgt tcc cat gat 576
 Phe Phe Cys Asp Tyr Ser Pro Leu Leu Lys Leu Ala Cys Ser His Asp
 180 185 190
 ttt act ttt gaa ata att cca got atc tct tct gga tct atc att gtg 624
 Phe Thr Phe Glu Ile Ile Pro Ala Ile Ser Ser Gly Ser Ile Ile Val
 195 200 205
 gcc act gtg tgt gtc ata gcc ata tcc tac atc tat atc ctc atc acc 672
 Ala Thr Val Cys Val Ile Ala Ile Ser Tyr Ile Tyr Ile Leu Ile Thr
 210 215 220

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atc ctg aag atg cac tcc acc aag ggc cgc cac aag gcc ttc tcc acc      720
ile leu lys met his ser thr lys gly arg his lys ala phe ser thr
225                230                235                240

tgc acc tcc cac ctg act gca gtc act ctg ttc tat ggg acc att acc      768
cys thr ser his leu thr ala val thr leu phe tyr gly thr ile thr
245                250                255

ttc att tat gtg atg ccc aag tcc agc tac tca act gac cag aac aag      816
phe ile tyr val met pro lys ser ser tyr ser thr asp gln asn lys
260                265                270

gtg gtg tct gtg ttc tac acc gtg gtg att ccc atg ttg aac ccc ctg      864
val val ser val phe tyr thr val val ile pro met leu asn pro leu
275                280                285

atc tac agc ctg agg aac aag gag att aag ggg gct ctg aag aga gag      912
ile tyr ser leu arg asn lys glu ile lys gly ala leu lys arg glu
290                295                300

ctt aga ata aaa ata ttt tct tga                                     936
leu arg ile lys ile phe ser
305                310

<210> 222
<211> 311
<212> PRT
<213> Homo Sapiens

<400> 222
Met Gly Thr Gly Asn Asp Thr Thr Val Val Glu Phe Thr Leu Leu Gly
1      5      10      15

Leu Ser Glu Asp Thr Thr Val Cys Ala Ile Leu Phe Leu Val Phe Leu
20     25     30

Gly ile Tyr Val Val Thr Leu Met Gly Asn ile Ser ile ile Val Leu
35     40     45

ile arg arg ser his his leu his thr pro met tyr ile phe leu cys
50     55     60

his leu ala phe val asp ile gly tyr ser ser ser val thr pro val
65     70     75     80

Met Leu Met Ser Phe Leu Arg Lys Glu Thr Ser Leu Pro Val Ala Gly
85     90     95

Cys Val Ala Gln Leu Cys Ser Val Val Thr Phe Gly Thr Ala Glu Cys
100    105    110

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Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser
 115 120 125
 Pro Leu Leu Tyr Ser Thr Cys Met Ser Pro Gly Val Cys Ile Ile Leu
 130 135 140
 Val Gly Met Ser Tyr Leu Gly Gly Cys Val Asn Ala Trp Thr Phe Ile
 145 150 155 160
 Gly Cys Leu Leu Arg Leu Ser Phe Cys Gly Pro Asn Lys Val Asn His
 165 170 175
 Phe Phe Cys Asp Tyr Ser Pro Leu Leu Lys Leu Ala Cys Ser His Asp
 180 185 190
 Phe Thr Phe Glu Ile Ile Pro Ala Ile Ser Ser Gly Ser Ile Ile Val
 195 200 205
 Ala Thr Val Cys Val Ile Ala Ile Ser Tyr Ile Tyr Ile Leu Ile Thr
 210 215 220
 Ile Leu Lys Met His Ser Thr Lys Gly Arg His Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Thr Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Thr Ile Thr
 245 250 255
 Phe Ile Tyr Val Met Pro Lys Ser Ser Tyr Ser Thr Asp Gln Asn Lys
 260 265 270
 Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Gly Ala Leu Lys Arg Glu
 290 295 300
 Leu Arg Ile Lys Ile Phe Ser
 305 310

<210> 223
 <211> 936
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1) .. (933)
 <223>

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<400> 223
atg tcc aac gcc agc ctc gtg aca gca ttc atc ctc aca ggc ctt ccc      48
Met Ser Asn Ala Ser Leu Val Thr Ala Phe Ile Leu Thr Gly Leu Pro
1      5      10      15

cat gcc cca ggg ctg gac gcc ctc ctc ttt gga atc ttc ctg gtg gtt      96
His Ala Pro Gly Leu Asp Ala Leu Leu Phe Gly Ile Phe Leu Val Val
20     25     30

tac gtg ctc act gtg ctg ggg aac ctc ctc atc ctg ctg gtg atc agg      144
Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
35     40     45

gtg gat tct cac ctc cac acc ccc atg tac tac ttc ctc acc aac ctg      192
Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu
50     55     60

tcc ttc att gac atg tgg ttc tcc act gtc acc gtg ccc aaa atg ctg      240
Ser Phe Ile Asp Met Tyr Phe Ser Thr Val Thr Val Pro Lys Met Leu
65     70     75     80

atg acc ttg gtg tcc cca agc gcc agg gct atc tcc ttc cac agc tgc      288
Met Thr Leu Val Ser Pro Ser Gly Arg Ala Ile Ser Phe His Ser Cys
85     90     95

gtg gct cag ctc tat ttt ttc cac ttc ctg ggg agc acc gag tgt ttc      336
Val Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Cys Phe
100    105    110

ctc tac aca gtc atg tcc tat gat cgc tac ttg gcc atc agt tac cgg      384
Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
115    120    125

ctc agg tac acc agc atg atg agt ggg agc agg tgt gcc ctc ctg gcc      432
Leu Arg Tyr Thr Ser Met Met Ser Gly Ser Arg Cys Ala Leu Leu Ala
130    135    140

acc gcc act tgg ctc agt gcc tct ctg cac tct gct gtc cag acc ata      480
Thr Gly Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Thr Ile
145    150    155    160

ttg act ttc cat ttg ccc tac tgt gga ccc aac cag atc cag cac tac      528
Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Gln Ile Gln His Tyr
165    170    175

ttc tgt gac gca cgg ccc atc ctg aaa ctg gcc tgt gca gac acc tca      576
Phe Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
180    185    190

gcc aac gtg atg gtc atc ttt gtg gac att ggg ata gtg gcc tca gcc      624
Ala Asn Val Met Val Ile Phe Val Asp Ile Gly Ile Val Ala Ser Gly
195    200    205

tgc ttt gtc ctg ata gtg ctg tcc tat gtg tcc atc gtc tgt tcc atc      672
Cys Phe Val Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
210    215    220

ctg cgg atc cgc acc tca gat ggg agg cgc aga gcc ttt cag acc tgt      720
Leu Arg Ile Arg Thr Ser Asp Gly Arg Arg Arg Ala Phe Gln Thr Cys

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225 230 235 240
 gcc tcc ccc tgc att gtg gtc ctt tgc ttc ttt gtt ccc tgt gtt gtc 768
 Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Val Pro Cys Val Val
 245 250 255

 att tat ctg agg cca ggc tcc atg gat gcc atg gat gga gtt gtg gcc 816
 Ile Tyr Leu Arg Pro Gly Ser Met Asp Ala Met Asp Gly Val Val Ala
 260 265 270

 att ttc tac act gtg ctg acg ccc ctt ctc aac cct gtt gtg tac acc 864
 Ile Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr
 275 280 285

 ctg aga aac aag gag gbg aag aaa gct gtg ttg aaa ctt aga gac aaa 912
 Leu Arg Asn Lys Glu Val Lys Lys Ala Val Leu Lys Leu Arg Asp Lys
 290 295 300

 gta gca cat cct cag agg aaa taa 936
 Val Ala His Pro Gln Arg Lys
 305 310

 <210> 224
 <211> 311
 <212> PRT
 <213> Homo Sapiens

 <400> 224
 Met Ser Asn Ala Ser Leu Val Thr Ala Phe Ile Leu Thr Gly Leu Pro
 1 5 10 15

 His Ala Pro Gly Leu Asp Ala Leu Leu Phe Gly Ile Phe Leu Val Val
 20 25 30

 Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
 35 40 45

 Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu
 50 55 60

 Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu
 65 70 75 80

 Met Thr Leu Val Ser Pro Ser Gly Arg Ala Ile Ser Phe His Ser Cys
 85 90 95

 Val Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Cys Phe
 100 105 110

 Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
 115 120 125

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Leu Arg Tyr Thr Ser Met Met Ser Gly Ser Arg Cys Ala Leu Leu Ala
 130 135 140

Thr Gly Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Thr Ile
 145 150 155 160

Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Gln Ile Gln His Tyr
 165 170 175

Phe Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
 180 185 190

Ala Asn Val Met Val Ile Phe Val Asp Ile Gly Ile Val Ala Ser Gly
 195 200 205

Cys Phe Val Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
 210 215 220

Leu Arg Ile Arg Thr Ser Asp Gly Arg Arg Arg Ala Phe Gln Thr Cys
 225 230 235 240

Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Val Pro Cys Val Val
 245 250 255

Ile Tyr Leu Arg Pro Gly Ser Met Asp Ala Met Asp Gly Val Val Ala
 260 265 270

Ile Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr
 275 280 285

Leu Arg Asn Lys Glu Val Lys Lys Ala Val Leu Lys Leu Arg Asp Lys
 290 295 300

Val Ala His Pro Gln Arg Lys
 305 310

<210> 225
 <211> 936
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(933)
 <223>

<220>

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<221> misc_feature

<222> (756)..(757)

<223> Uncertain nucleotide

<400> 225

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atg tcc aag acc agc ctc gtg aca gcg ttc atc ctc acg ggc ctt ccc      48
Met Ser Lys Thr Ser Leu Val Thr Ala Phe Ile Leu Thr Gly Leu Pro
1      5      10      15

cat gcc cca ggg ctg gac gcc cca ctc ttt gga atc ttc ctg gtg gtt      96
His Ala Pro Gly Leu Asp Ala Pro Leu Phe Gly Ile Phe Leu Val Val
20     25     30

tac gtg ctc act gtg ctg ggg aac ctc ctc atc ctg ctg gtg atc agg      144
Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
35     40     45

gtg gat tct cac ctc cac acc ccc atg tac tac ttc ctc acc aac ctg      192
Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu
50     55     60

tcc ttc att gac atg tgg ttc tcc act gtc acg gtg ccc aaa atg ctg      240
Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu
65     70     75     80

atg acc ttg gtg tcc cca agc gcc agg gct atc tcc ttc cac agc tgc      288
Met Thr Leu Val Ser Pro Ser Gly Arg Ala Ile Ser Phe His Ser Cys
85     90     95

gtg gct cag ctc tat ttt ttc cac ttc ctg ggg agc acc gag tgt ttc      336
Val Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Cys Phe
100    105    110

ctc tac aca gtc atg tcc tat gat cgc tac ttg gcc atc agt tac ccg      384
Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
115    120    125

ctc agg tac acc agc atg atg agt ggg agc aga tgt gcc ctc ctg gcc      432
Leu Arg Tyr Thr Ser Met Met Ser Gly Ser Arg Cys Ala Leu Leu Ala
130    135    140

acc agc act tgg ctc agt gcc tct ctg cac tct gct gtc cag acc ata      480
Thr Ser Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Thr Ile
145    150    155    160

ttg act ttc cat ttg ccc tac tgt gga ccc aac cag atc cag cac tat      528
Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Gln Ile Gln His Tyr
165    170    175

ttg tgt gat gca ccg ccc atc ctg aaa ctg gcc tgt gca gac acc tca      576
Leu Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
180    185    190

gcc aac gag atg gtc atc ttt gtg gac att ggg cta gtg gcc tcg gcc      624
Ala Asn Glu Met Val Ile Phe Val Asp Ile Gly Leu Val Ala Ser Gly
195    200    205

tgc ttt ctc ctg ata gtg ctg tct tat gtg tcc atc gtc tgt tcc atc      672
Cys Phe Leu Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
210    215    220

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ctg cgg atc cac acc tca gag ggg agg cac aga gcc ttt cag acc tgt      720
Leu Arg Ile His Thr Ser Glu Gly Arg His Arg Ala Phe Gln Thr Cys
225                230                235                240

gcc tcc cac tgc atc gtg gtc ctt tgc ttt ttt gtn ncc tgt gtt ttc      768
Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Val Xaa Cys Val Phe
245                250                255

att tac ctg aga cca ggc tcc agg gac gtc gtg gat gga gtt gtg gcc      816
Ile Tyr Leu Arg Pro Gly Ser Arg Asp Val Val Asp Gly Val Val Ala
260                265                270

att ttc tac act gtg ctg aca ccc ctt ctc aac cct gtt gtg tac acc      864
Ile Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr
275                280                285

ctg aga aac aag gag gtg aag aaa gct gtg ttg aaa ctg aga gac aaa      912
Leu Arg Asn Lys Glu Val Lys Lys Ala Val Leu Lys Leu Arg Asp Lys
290                295                300

gta gca cat tct cag gga gaa taa      936
Val Ala His Ser Gln Gly Glu
305                310

<210> 226
<211> 311
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<222> (253)..(253)
<223> The 'Xaa' at location 253 stands for Thr, Ala, Pro, or Ser.

<220>
<221> misc_feature
<222> (756)..(757)
<223> Uncertain nucleotide

<400> 226
Met Ser Lys Thr Ser Leu Val Thr Ala Phe Ile Leu Thr Gly Leu Pro
1          5          10          15

His Ala Pro Gly Leu Asp Ala Pro Leu Phe Gly Ile Phe Leu Val Val
20          25          30

Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
35          40          45

Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu
50          55          60

Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu
65          70          75          80

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Met Thr Leu Val Ser Pro Ser Gly Arg Ala Ile Ser Phe His Ser Cys
85 90 95

Val Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Cys Phe
100 105 110

Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
115 120 125

Leu Arg Tyr Thr Ser Met Met Ser Gly Ser Arg Cys Ala Leu Leu Ala
130 135 140

Thr Ser Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Thr Ile
145 150 155 160

Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Gln Ile Gln His Tyr
165 170 175

Leu Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
180 185 190

Ala Asn Glu Met Val Ile Phe Val Asp Ile Gly Leu Val Ala Ser Gly
195 200 205

Cys Phe Leu Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
210 215 220

Leu Arg Ile His Thr Ser Glu Gly Arg His Arg Ala Phe Gln Thr Cys
225 230 235 240

Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Val Xaa Cys Val Phe
245 250 255

Ile Tyr Leu Arg Pro Gly Ser Arg Asp Val Val Asp Gly Val Val Ala
260 265 270

Ile Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr
275 280 285

Leu Arg Asn Lys Glu Val Lys Lys Ala Val Leu Lys Leu Arg Asp Lys
290 295 300

Val Ala His Ser Gln Gly Gln
305 310

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<210> 227
 <211> 936
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(933)
 <223>

<400> 227
 atg tcc aac gcc agc cta ctg aca ggg ttc atc ctc atg ggc ctt ccc 48
 Met Ser Asn Ala Ser Leu Leu Thr Ala Phe Ile Leu Met Gly Leu Pro
 1 5 10 15
 cal gcc cca ggg ctg gac gcc ccc ctc ttt gga gtc ttc ctg gtg gtt 96
 His Ala Pro Ala Leu Asp Ala Pro Leu Phe Gly Val Phe Leu Val Val
 20 25 30
 tac gtg ctc act ctg ctg ggg aac ctc ctc atc ctg ctg gtg atc agg 144
 Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
 35 40 45
 gtg gat tct cag ctc cac acc acc atg tac tac ttc ctc acc aac ctg 192
 Val Asp Ser His Leu His Thr Thr Met Tyr Tyr Phe Leu Thr Asn Leu
 50 55 60
 tgg ttc att gac atg tgg ttc tcc act gtc aag gtg ccc aaa ttg ctg 240
 Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Leu Leu
 65 70 75 80
 atg act ttg gtg ttc cca agt ggc agg gct atc tcc ttc cac agc tgc 288
 Met Thr Leu Val Phe Pro Ser Gly Arg Ala Ile Ser Phe His Ser Cys
 85 90 95
 atg gct cag ctc tat ttc ttt cac ttc cta ggg ggc acc gag tgt ttc 336
 Met Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Gly Thr Glu Cys Phe
 100 105 110
 ctc tac agg gtc atg tcc tgt gat cgc tac ctg gcc atc agt tac cgg 384
 Leu Tyr Arg Val Met Ser Cys Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
 115 120 125
 ctc agg tac acc agc atg atg act ggg cgc tgg tgt act ctt ctg gcc 432
 Leu Arg Tyr Thr Ser Met Met Thr Gly Arg Ser Cys Thr Leu Leu Ala
 130 135 140
 acc agc act tgg ctc agt ggc tct ctg cac tct gct gtc cag gcc ata 480
 Thr Ser Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Ala Ile
 145 150 155 160
 ttg act ttc cat ttg ccc tac tgt gga ccc aac tgg atc cag cac tat 528
 Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Trp Ile Gln His Tyr
 165 170 175
 ttg tgt gat gca cgg ccc atc ctg aaa ctg gcc tgt gca gac acc tca 576
 Leu Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
 180 185 190

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gcc ata gag act gtc att ttt gtg act gtt gga ata gtg gcc tgg ggc      624
Ala Ile Glu Thr Val Ile Phe Val Thr Val Gly Ile Val Ala Ser Gly
      195                200                205

tgc ttt gtc ctg ata gtg ctg tcc tat gtg tcc atc gtc tgt tcc atc      672
Cys Phe Val Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
      210                215                220

ctg cgg atc cgc acc tca gag ggg aag cac aga gcc ttt cag acc tgt      720
Leu Arg Ile Arg Thr Ser Glu Gly Lys His Arg Ala Phe Gln Thr Cys
      225                230                235                240

gcc tcc cac tgt atc gtg gtc ctt tgc ttc ttt ggc cct ggt ctt ttc      768
Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Gly Pro Gly Leu Phe
      245                250                255

att tac ctg agg coa ggc tcc agg aaa gct gtg gat gga gtt gtg gcc      816
Ile Tyr Leu Arg Pro Gly Ser Arg Lys Ala Val Asp Gly Val Val Ala
      260                265                270

gtt ttc tac act gtg ctg acg ccc ctt ctc aac cct gtt gtg tac acc      864
Val Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr
      275                280                285

ctg agg aac aag gag gtg aag aaa gct ctg ttg aag ctg aaa gac aaa      912
Leu Arg Asn Lys Glu Val Lys Lys Ala Leu Leu Lys Leu Lys Asp Lys
      290                295                300

gta gca cat tct cag agc aaa tag      936
Val Ala His Ser Gln Ser Lys
      305                310

<210> 228
<211> 311
<212> PRT
<213> Homo Sapiens

<400> 228

Met Ser Asn Ala Ser Leu Leu Thr Ala Phe Ile Leu Met Gly Leu Pro
1          5          10          15

His Ala Pro Ala Leu Asp Ala Pro Leu Phe Gly Val Phe Leu Val Val
20          25          30

Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
35          40          45

Val Asp Ser His Leu His Thr Thr Met Tyr Tyr Phe Leu Thr Asn Leu
50          55          60

Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Leu Leu
65          70          75          80

Met Thr Leu Val Phe Pro Ser Gly Arg Ala Ile Ser Phe His Ser Cys

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85 90 95
 Met Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Gly Thr Glu Cys Phe
 100 105 110
 Leu Tyr Arg Val Met Ser Cys Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
 115 120 125
 Leu Arg Tyr Thr Ser Met Met Thr Gly Arg Ser Cys Thr Leu Leu Ala
 130 135 140
 Thr Ser Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Ala Ile
 145 150 155 160
 Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Trp Ile Gln His Tyr
 165 170 175
 Leu Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
 180 185 190
 Ala Ile Glu Thr Val Ile Phe Val Thr Val Gly Ile Val Ala Ser Gly
 195 200 205
 Cys Phe Val Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
 210 215 220
 Leu Arg Ile Arg Thr Ser Glu Gly Lys His Arg Ala Phe Gln Thr Cys
 225 230 235 240
 Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Gly Pro Gly Leu Phe
 245 250 255
 Ile Tyr Leu Arg Pro Gly Ser Arg Lys Ala Val Asp Gly Val Val Ala
 260 265 270
 Val Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr
 275 280 285
 Leu Arg Asn Lys Glu Val Lys Lys Ala Leu Leu Lys Leu Lys Asp Lys
 290 295 300
 Val Ala His Ser Gln Ser Lys
 305 310
 <210> 329
 <211> 933

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<212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(930)
 <223>

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<400> 239
atg gat aaa gaa aac agc tca atg gtg act gag ttt atc ttc atg ggc      48
Met Asp Lys Glu Asn Ser Ser Met Val Thr Glu Phe Ile Phe Met Gly
1      5      10      15

atc acc cag gac cct cag atg gag atc atc ttc ttc gtg gtc ttc ctc      96
Ile Thr Gln Asp Pro Gln Met Glu Ile Ile Phe Phe Val Val Phe Leu
      20      25      30

ata gtt tac ctg gtt aat gta gtg ggg aat att ggt atg att atc ctg     144
Ile Val Tyr Leu Val Asn Val Val Gly Asn Ile Gly Met Ile Ile Leu
      35      40      45

att aca acs gac act cag ctt cac aca ccc atg tat ttt ttc ctc tgc     192
Ile Thr Thr Asp Thr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Cys
      50      55      60

aac ctc tcc ttt gtt gac ctg ggc tac tcc tca gcc att gcc ccc agg     240
Asn Leu Ser Phe Val Asp Leu Gly Tyr Ser Ser Ala Ile Ala Pro Arg
      65      70      75      80

atg ctg gct gac ttc cta aca aat cac aaa gtt atc tcc ttc tcc agc     288
Met Leu Ala Asp Phe Leu Thr Asn His Lys Val Ile Ser Phe Ser Ser
      85      90      95

tgt gcc acc cag ttt gct ttt ttt gta ggt ctt gtg gat gct gag tgc     336
Cys Ala Thr Gln Phe Ala Phe Phe Val Gly Phe Val Asp Ala Glu Cys
      100      105      110

tat gtc ctg gca gcc atg gcc tat ggt cgt ttt gtg gcc att tgt cga     384
Tyr Val Leu Ala Ala Met Ala Tyr Gly Arg Phe Val Ala Ile Cys Arg
      115      120      125

ccc ctc cac tat agc acc ttc atg tcc aag cag gtc tgc ttg gct ctc     432
Pro Leu His Tyr Ser Thr Phe Met Ser Lys Gln Val Cys Leu Ala Leu
      130      135      140

atg ctg ggc tct tac ctg gct ggt cta gtg agt tta gta gcc cac act     480
Met Leu Gly Ser Tyr Leu Ala Gly Leu Val Ser Leu Val Ala His Thr
      145      150      155      160

acc ctc acc ttc agc ctg agt tac tgt ggt tcc aat atc atc aat cat     528
Thr Leu Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Ile Ile Asn His
      165      170      175

ttc ttc tgc gaa atc cca cca ctc ttg gcc ctc tct tgc tca gac acc     576
Phe Phe Cys Glu Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr
      180      185      190

tac atc agt gag atc ttg ctc ttc agt ctg tgt ggc ttc att gaa ttc     624
Tyr Ile Ser Glu Ile Leu Leu Phe Ser Leu Cys Gly Phe Ile Glu Phe
      195      200      205

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agc acc atc ctc atc atc ttc atc tcc tat acc ttt atc ctt gtt gca      672
Ser Thr Ile Leu Ile Ile Phe Ile Ser Tyr Thr Phe Ile Leu Val Ala
210                215                220

atc atc aga atg cgt tca gct gaa ggc cgc ctt aag gct ttc tcc acc      720
Ile Ile Arg Met Arg Ser Ala Glu Gly Arg Leu Lys Ala Phe Ser Thr
225                230                235                240

tgc ggg tct ccc ctt act ggc atc acc ctc ttc tat ggc aca gtc atg      768
Cys Gly Ser His Leu Thr Gly Ile Thr Leu Phe Tyr Gly Thr Val Met
245                250                255

ttt atg tac ctg agg cca aca tcc agc tac tcc ctg gac caa gac aag      816
Phe Met Tyr Leu Arg Pro Thr Ser Ser Tyr Ser Leu Asp Gln Asp Lys
260                265                270

tgg gcc tct gtg ttc tac acg gtt atc atc ccc atg tta aat ccc ttg      864
Trp Ala Ser Val Phe Tyr Thr Val Ile Ile Pro Met Leu Asn Pro Leu
275                280                285

atc tac agt ttg cgg aac aag gat gtg aaa gct gct ttc aaa aag cta      912
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Phe Lys Lys Leu
290                295                300

att gga aaa aaa tct caa taa      933
Ile Gly Lys Lys Ser Gln
305                310

<210> 230
<211> 310
<212> PRT
<213> Homo Sapiens

<400> 230

Met Asp Lys Glu Asn Ser Ser Met Val Thr Glu Phe Ile Phe Met Gly
1      5      10      15

Ile Thr Gln Asp Pro Gln Met Glu Ile Ile Phe Phe Val Val Phe Leu
20     25     30

Ile Val Tyr Leu Val Asn Val Val Gly Asn Ile Gly Met Ile Ile Leu
35     40     45

Ile Thr Thr Asp Thr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Cys
50     55     60

Asn Leu Ser Phe Val Asp Leu Gly Tyr Ser Ser Ala Ile Ala Pro Arg
65     70     75     80

Met Leu Ala Asp Phe Leu Thr Asn His Lys Val Ile Ser Phe Ser Ser
85     90     95

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Cys Ala Thr Gln Phe Ala Phe Phe Val Gly Phe Val Asp Ala Glu Cys
 100 105 110
 Tyr Val Leu Ala Ala Met Ala Tyr Gly Arg Phe Val Ala Ile Cys Arg
 115 120 125
 Pro Leu His Tyr Ser Thr Phe Met Ser Lys Gln Val Cys Leu Ala Leu
 130 135 140
 Met Leu Gly Ser Tyr Leu Ala Gly Leu Val Ser Leu Val Ala His Thr
 145 150 155 160
 Thr Leu Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Ile Ile Asn His
 165 170 175
 Phe Phe Cys Glu Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr
 180 185 190
 Tyr Ile Ser Glu Ile Leu Leu Phe Ser Leu Cys Gly Phe Ile Glu Phe
 195 200 205
 Ser Thr Ile Leu Ile Ile Phe Ile Ser Tyr Thr Phe Ile Leu Val Ala
 210 215 220
 Ile Ile Arg Met Arg Ser Ala Glu Gly Arg Leu Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Thr Gly Ile Thr Leu Phe Tyr Gly Thr Val Met
 245 250 255
 Phe Met Tyr Leu Arg Pro Thr Ser Ser Tyr Ser Leu Asp Gln Asp Lys
 260 265 270
 Trp Ala Ser Val Phe Tyr Thr Val Ile Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Phe Lys Lys Leu
 290 295 300
 Ile Gly Lys Lys Ser Gln
 305 310
 <210> 231
 <211> 942
 <212> DNA
 <213> Homo Sapiens

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<220>
<221> CDS
<222> (1) .. (539)
<223>

<400> 221
atg aaa gag gtt cga ggc aga aat caa aca gaa gta aca gaa ttt ctc      48
Met Lys Glu Val Arg Gly Arg Asn Gln Thr Glu Val Thr Glu Phe Leu
1      5      10      15

ctc tta gga ctt tcc gac aat cca gat cta caa gga gtc ctc ttt gca      96
Leu Leu Gly Leu Ser Asp Asn Pro Asp Leu Gln Gly Val Leu Phe Ala
16      20      25      30

ttg ttt ctg ttg atc tat atg gca aac atg gtg ggc aat ttg ggg atg      144
Leu Phe Leu Ile Tyr Met Ala Asn Met Val Gly Asn Leu Gly Met
35      40      45

att gta ttg att aag att gat ctc tgt ctc cac acc ccc atg tat ttc      192
Ile Val Leu Ile Lys Ile Asp Leu Cys Leu His Thr Pro Met Tyr Phe
50      55      60

ttt ctc agt agc ctc tct ttt gta gat gcc tct tac tct tct tcc gtc      240
Phe Leu Ser Ser Leu Ser Phe Val Asp Ala Ser Tyr Ser Ser Ser Val
65      70      75      80

act ccc aag atg ctg gtg aac ctc atg gct gag aat aag gcc att tct      288
Thr Pro Lys Met Leu Val Asn Leu Met Ala Glu Asn Lys Ala Ile Ser
85      90      95

ttt cat gga tgt gct gcc cag ttc tac ttc ttt ggc tcc ttc ctg ggg      336
Phe His Gly Cys Ala Ala Gln Phe Tyr Phe Phe Gly Ser Phe Leu Gly
100      105      110

act gag tgc ttc ctg ttg gcc atg atg gca tat gac cgc tat gca gcc      384
Thr Glu Cys Phe Leu Leu Ala Met Met Ala Tyr Asp Arg Tyr Ala Ala
115      120      125

att tgg aac ccc ctg ctc tac cca gtt ctc gtg tct ggg aga att tgc      432
Ile Trp Asn Pro Leu Leu Tyr Pro Val Leu Val Ser Gly Arg Ile Cys
130      135      140

ttt ttg cta ata gct acc tcc ttc tta gca ggt tgt gga aat gca gcc      480
Phe Leu Leu Ile Ala Thr Ser Phe Leu Ala Gly Cys Gly Asn Ala Ala
145      150      155      160

ata cat aca ggg atg act ttt agg ttg tcc ttt tgt ggt tct aat agg      528
Ile His Thr Gly Met Thr Phe Arg Leu Ser Phe Cys Gly Ser Asn Arg
165      170      175

atc aac cat ttc tac tgt gac acc cag cca ctg ctc aaa ctc tct tgc      576
Ile Asn His Phe Tyr Cys Asp Thr Pro Pro Leu Leu Lys Leu Ser Cys
180      185      190

tct gat acc cac ttc aat ggc att gtg atc atg gca ttc tca agt ttt      624
Ser Asp Thr His Phe Asn Gly Ile Val Ile Met Ala Phe Ser Ser Phe
195      200      205

att gtc atc agc tgt gtt atg att gtc ctc att tcc tac ctg tgt atc      672
Ile Val Ile Ser Cys Val Met Ile Val Leu Ile Ser Tyr Leu Cys Ile

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210          215          220
ttc att gcc gtc ttg aag atg cct tgg tta gag ggc agg cac aaa gcc 720
Phe Ile Ala Val Leu Lys Met Pro Ser Leu Glu Gly Arg His Lys Ala
225          230          235          240
ttc tcc acc tgt gcc tct tac ctc atg gct gtc acc ata ttc ttt gga 768
Phe Ser Thr Cys Ala Ser Tyr Leu Met Ala Val Thr Ile Phe Phe Gly
245          250          255
aca atc ctc ttc atg tac ttg cgc cct aca tct agc tac tca atg gag 816
Thr Ile Leu Phe Met Tyr Leu Arg Pro Thr Ser Ser Tyr Ser Met Glu
260          265          270
caa gac aag gtt gtc tct gtc ttt tat aca gta ata atc cct gtg cta 864
Gln Asp Lys Val Val Ser Val Phe Tyr Thr Val Ile Ile Pro Val Leu
275          280          285
aat ccc ctc atc tat agt tta aaa aat aag gat gta aaa aag gcc cta 912
Asn Pro Leu Ile Tyr Ser Leu Lys Asn Lys Asp Val Lys Lys Ala Leu
290          295          300
aag aag atc tta tgg aaa cac atc ttg tag 942
Lys Lys Ile Leu Trp Lys His Ile Leu
305          310

<210> 232
<211> 313
<212> PRT
<213> Homo Sapiens

<400> 232
Met Lys Glu Val Arg Gly Arg Asn Gln Thr Glu Val Thr Glu Phe Leu
1          5          10          15
Leu Leu Gly Leu Ser Asp Asn Pro Asp Leu Gln Gly Val Leu Phe Ala
20          25          30
Leu Phe Leu Leu Ile Tyr Met Ala Asn Met Val Gly Asn Leu Gly Met
35          40          45
Ile Val Leu Ile Lys Ile Asp Leu Cys Leu His Thr Pro Met Tyr Phe
50          55          60
Phe Leu Ser Ser Leu Ser Phe Val Asp Ala Ser Tyr Ser Ser Ser Val
65          70          75          80
Thr Pro Lys Met Leu Val Asn Leu Met Ala Glu Asn Lys Ala Ile Ser
85          90          95
Phe His Gly Cys Ala Ala Gln Phe Tyr Phe Phe Gly Ser Phe Leu Gly
100          105          110

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Thr Glu Cys Phe Leu Leu Ala Met Met Ala Tyr Asp Arg Tyr Ala Ala
 115 120 125
 Ile Trp Asn Pro Leu Leu Tyr Pro Val Leu Val Ser Gly Arg Ile Cys
 130 135 140
 Phe Leu Leu Ile Ala Thr Ser Phe Leu Ala Gly Cys Gly Asn Ala Ala
 145 150 155 160
 Ile His Thr Gly Met Thr Phe Arg Leu Ser Phe Cys Gly Ser Asn Arg
 165 170 175
 Ile Asn His Phe Tyr Cys Asp Thr Pro Pro Leu Leu Lys Leu Ser Cys
 180 185 190
 Ser Asp Thr His Phe Asn Gly Ile Val Ile Met Ala Phe Ser Ser Phe
 195 200 205
 Ile Val Ile Ser Cys Val Met Ile Val Leu Ile Ser Tyr Leu Cys Ile
 210 215 220
 Phe Ile Ala Val Leu Lys Met Pro Ser Leu Glu Gly Arg His Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Ala Ser Tyr Leu Met Ala Val Thr Ile Phe Phe Gly
 245 250 255
 Thr Ile Leu Phe Met Tyr Leu Arg Pro Thr Ser Ser Tyr Ser Met Glu
 260 265 270
 Glu Asp Lys Val Val Ser Val Phe Tyr Thr Val Ile Ile Pro Val Leu
 275 280 285
 Asn Pro Leu Ile Tyr Ser Leu Lys Asn Lys Asp Val Lys Lys Ala Leu
 290 295 300
 Lys Lys Ile Leu Trp Lys His Ile Leu
 305 310
 <210> 213
 <211> 348
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(945)

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PCT/BE01/00162

<223>

<400> 233
 atg ttc tcc cca aac cac acc ata gtg aca gaa ttc att ctc ttg gga 48
 Met Phe Ser Pro Asn His Thr Ile Val Thr Glu Phe Ile Leu Leu Gly
 1 5 10 15
 ctg aca gac gac cca gtg cta gag aag atc ctg ttt ggg gta ttc ctt 96
 Leu Thr Asp Asp Pro Val Leu Glu Lys Ile Leu Phe Gly Val Phe Leu
 20 25 30
 gcg atc tac cta atc aca ctg gca ggc aac ctg tgc atg atc ctg ctg 144
 Ala Ile Tyr Leu Ile Thr Leu Ala Gly Asn Leu Cys Met Ile Leu Leu
 35 40 45
 atc agg acc aat tcc cac ctg caa aca ccc atg tat ttc ttc ctt ggc 192
 Ile Arg Thr Asn Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Gly
 50 55 60
 cac ctc tcc ttt gta gac att tgc tat tct tcc aat ctt act cca aat 240
 His Leu Ser Phe Val Asp Ile Cys Tyr Ser Ser Asn Val Thr Pro Asn
 65 70 75 80
 atg ctg cac aat ttc ctc tca gaa cag aag acc atc tcc tac gct gga 298
 Met Leu His Asn Phe Leu Ser Glu Gln Lys Thr Ile Ser Tyr Ala Gly
 85 90 95
 tgc ttc aca cag tgt ctt ctc ttc atc gcc ctg gtg atc act gag ttt 336
 Cys Phe Thr Gln Cys Leu Leu Phe Ile Ala Leu Val Ile Thr Glu Phe
 100 105 110
 tac atc ctt gct tca atg gca ttg gat cgc tat gta gcc att tgc agc 384
 Tyr Ile Leu Ala Ser Met Ala Leu Asp Arg Tyr Val Ala Ile Cys Ser
 115 120 125
 cct ttg cat tac agt tcc agg atg tcc aag aac atc tgt gtc tgt ctg 432
 Pro Leu His Tyr Ser Ser Arg Met Ser Lys Asn Ile Cys Val Cys Leu
 130 135 140
 gtc act atc cct tac atg tat ggg ttt ctt agt ggg ttc tct cag tca 480
 Val Thr Ile Pro Tyr Met Tyr Gly Phe Leu Ser Gly Phe Ser Gln Ser
 145 150 155 160
 ctg cta acc ttt cac tta tcc ttc tgt ggc tcc ctt gaa atc aat cat 528
 Leu Leu Thr Phe His Leu Ser Phe Cys Gly Ser Leu Glu Ile Asn His
 165 170 175
 ttc tac tgc gct gat cct cct ctt atc atg ctg gcc tgc tct gac acc 576
 Phe Tyr Cys Ala Asp Pro Pro Leu Ile Met Leu Ala Cys Ser Asp Thr
 180 185 190
 cgt gtc aaa aag atg gca atg ttt gta gtt gca ggc ttt aat ctc tca 624
 Arg Val Lys Lys Met Ala Met Phe Val Val Ala Gly Phe Asn Leu Ser
 195 200 205
 agc tct ctc ttc atc att ctt ctg tcc tak ctt ttc att ttt gca gcg 672
 Ser Ser Leu Phe Ile Ile Leu Leu Ser Tyr Leu Phe Ile Phe Ala Ala
 210 215 220
 atc ttc agg atc cgt tct gct gaa ggc agg cac aaa gcc ttt tct acg 720

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Ile Phe Arg Ile Arg Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
225                230                235                240

tgt gct tcc cac ctg aca ata gtc act ttg ttt tat gga acc ctc ttc      768
Cys Ala Ser His Leu Thr Ile Val Thr Leu Phe Tyr Gly Thr Leu Phe
                245                250                255

tgc atg tac gta agg cct cca tca gag aag tct gta gag gag tcc aaa      816
Cys Met Tyr Val Arg Pro Pro Ser Glu Lys Ser Val Glu Glu Ser Lys
                260                265                270

ata act gca gtc ttt tat act ttt ttg agc cca atg ctg aac cca ttg      864
Ile Thr Ala Val Phe Tyr Thr Phe Leu Ser Pro Met Leu Asn Pro Leu
                275                280                285

atc tat agc cta cgg aac aca gat gta atc ctt gcc atg caa caa atg      912
Ile Tyr Ser Leu Arg Asn Thr Asp Val Ile Leu Ala Met Gln Gln Met
                290                295                300

att agg gga aaa tcc ttt cat aaa att gca gtt tag                      948
Ile Arg Gly Lys Ser Phe His Lys Ile Ala Val
305                310                315

<210> 234
<211> 315
<212> PRT
<213> Homo Sapiens

<400> 234
Met Phe Ser Pro Asn His Thr Ile Val Thr Glu Phe Ile Leu Leu Gly
1                5                10                15

Leu Thr Asp Asp Pro Val Leu Glu Lys Ile Leu Phe Gly Val Phe Leu
20                25                30

Ala Ile Tyr Leu Ile Thr Leu Ala Gly Asn Leu Cys Met Ile Leu Leu
35                40                45

Ile Arg Thr Asn Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Gly
50                55                60

His Leu Ser Phe Val Asp Ile Cys Tyr Ser Ser Asn Val Thr Pro Asn
65                70                75                80

Met Leu His Asn Phe Leu Ser Glu Gln Lys Thr Ile Ser Tyr Ala Gly
85                90                95

Cys Phe Thr Gln Cys Leu Leu Phe Ile Ala Leu Val Ile Thr Glu Phe
100               105               110

Tyr Ile Leu Ala Ser Met Ala Leu Asp Arg Tyr Val Ala Ile Cys Ser
115               120               125

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Pro Leu His Tyr Ser Ser Arg Met Ser Lys Asn Ile Cys Val Cys Leu
 130                135                140

Val Thr Ile Pro Tyr Met Tyr Gly Phe Leu Ser Gly Phe Ser Gln Ser
145                150                155                160

Leu Leu Thr Phe His Leu Ser Phe Cys Gly Ser Leu Glu Ile Asn His
 165                170                175

Phe Tyr Cys Ala Asp Pro Pro Leu Ile Met Leu Ala Cys Ser Asp Thr
 180                185                190

Arg Val Lys Lys Met Ala Met Phe Val Val Ala Gly Phe Asn Leu Ser
 195                200                205

Ser Ser Leu Phe Ile Ile Leu Leu Ser Tyr Leu Phe Ile Phe Ala Ala
 210                215                220

Ile Phe Arg Ile Arg Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
225                230                235                240

Cys Ala Ser His Leu Thr Ile Val Thr Leu Phe Tyr Gly Thr Leu Phe
 245                250                255

Cys Met Tyr Val Arg Pro Pro Ser Glu Lys Ser Val Glu Glu Ser Lys
 260                265                270

Ile Thr Ala Val Phe Tyr Thr Phe Leu Ser Pro Met Leu Asn Pro Leu
 275                280                285

Ile Tyr Ser Leu Arg Asn Thr Asp Val Ile Leu Ala Met Gln Gln Met
 290                295                300

Ile Arg Gly Lys Ser Phe His Lys Ile Ala Val
305                310                315

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<210> 235
<211> 918
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(912)
<223>

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WO 02/24726

PCT/BE01/00162

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Met Gln Arg Ser Asn His Thr Val Thr Gly Phe Ile Leu Leu Gly Phe
1 5 10 15

acc aca gac cca gga atg cag ctg ggc ctc ttc gtg gtg ttc ctg ggc 96
Thr Thr Asp Pro Gly Met Gln Leu Gly Leu Phe Val Val Phe Leu Gly
20 25 30

gtg tac tct ctc act gtg gta gga aat agc acc ctc atc gtg ttg atc 144
Val Tyr Ser Leu Thr Val Val Gly Asn Ser Thr Phe Ile Val Leu Ile
35 40 45

tgt aat gac tcc tgc ctc cac aca ccc atg tat ttt ttc act gga aat 192
Cys Asn Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Thr Gly Asn
50 55 60

ctg tgg ttt ctg gat ctc tgg tat tct tct gtc tac acc cca aag atc 240
Leu Ser Phe Leu Asp Leu Tyr Tyr Ser Ser Val Tyr Thr Pro Lys Ile
65 70 75 80

cta gtg acc tgc atc tct gaa gac aaa agc atc tcc ttt gct ggc tgc 288
Leu Val Thr Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys
85 90 95

ctg tgt cag ttc ttc ttc tct gca ggc ctg gcc tat agt gag tgc tac 336
Leu Cys Gln Phe Phe Ser Ala Gly Leu Ala Tyr Ser Glu Cys Tyr
100 105 110

ctg ctg gct gcc gtg gct tat gac cgc tac gtg gcc atc tcc aag ccc 384
Leu Leu Ala Ala Val Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro
115 120 125

ctg ctt tat gcc cag gcc atg tcc ata aag ctg tgt gca ttg ctg gta 432
Leu Leu Tyr Ala Gln Ala Met Ser Ile Lys Leu Cys Ala Leu Leu Val
130 135 140

gca gtc tca tat tgt ggt ggc ttt att aac tct tca atc atc acc aag 480
Ala Val Ser Tyr Cys Gly Gly Phe Ile Asn Ser Ser Ile Ile Thr Lys
145 150 155 160

aaa acg ttt tcc ttt aac ttc tgc cgt gaa aac atc att gat gac ttt 528
Lys Thr Phe Ser Phe Asn Phe Cys Arg Glu Asn Ile Ile Asp Asp Phe
165 170 175

ttc tgt gat ttg ctt ccc ttg gtg gag ctg gcc tgt ggc gag aag ggc 576
Phe Cys Asp Leu Leu Pro Leu Val Glu Leu Ala Cys Gly Glu Lys Gly
180 185 190

ggc tat aaa att atg atg tac ttc ctg ctg gcc tcc aat gtc atc tgc 624
Gly Tyr Lys Ile Met Met Tyr Phe Leu Leu Ala Ser Asn Val Ile Cys
195 200 205

ccc gca gtg ctc atc ctg gcc tcc tac ctc ttt atc atc acc agt gtc 672
Pro Ala Val Leu Ile Leu Ala Ser Tyr Leu Phe Ile Ile Thr Ser Val
210 215 220

ttg agg atc tcc tcc tcc aag ggc tac ctc aaa gcc ttc tcc aca tgc 720
Leu Arg Ile Ser Ser Lys Gly Tyr Leu Lys Ala Phe Ser Thr Cys
225 230 235 240

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tcc tcc cac ctg acc tct gtc act tta tac tat ggc tcc att ctc tac      768
Ser Ser His Leu Thr Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr
      245                      250                      255

atc tac gct ctc ccc aga tct agc tat tct ttt gat atg gac aaa ata      816
Ile Tyr Ala Leu Pro Arg Ser Ser Tyr Ser Phe Asp Met Asp Lys Ile
      260                      265                      270

gtt tct aca ttt tac act gtg gta ttc ccc atg ttg aat ctc atg atc      864
Val Ser Thr Phe Tyr Thr Val Val Phe Pro Met Leu Asn Leu Met Ile
      275                      280                      285

tac agc cta agg aat aag gat gtg aaa gag gct ctg aaa aaa ctt ctc      912
Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Lys Lys Leu Leu
      290                      295                      300

ccataa                                                                918

<210> 236
<211> 304
<212> PRT
<213> Homo Sapiens

<400> 236
Met Gln Arg Ser Asn His Thr Val Thr Glu Phe Ile Leu Leu Gly Phe
1                      5                      10                      15

Thr Thr Asp Pro Gly Met Gln Leu Gly Leu Phe Val Val Phe Leu Gly
20                      25                      30

Val Tyr Ser Leu Thr Val Val Gly Asn Ser Thr Leu Ile Val Leu Ile
35                      40                      45

Cys Asn Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Thr Gly Asn
50                      55                      60

Leu Ser Phe Leu Asp Leu Trp Tyr Ser Ser Val Tyr Thr Pro Lys Ile
65                      70                      75                      80

Leu Val Thr Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys
85                      90                      95

Leu Cys Gln Phe Phe Phe Ser Ala Gly Leu Ala Tyr Ser Glu Cys Tyr
100                     105                     110

Leu Leu Ala Ala Val Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro
115                     120                     125

Leu Leu Tyr Ala Gln Ala Met Ser Ile Lys Leu Cys Ala Leu Leu Val
130                     135                     140

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Ala Val Ser Tyr Cys Gly Gly Phe Ile Asn Ser Ser Ile Ile Thr Lys
 145 150 155 160

Lys Thr Phe Ser Phe Asn Phe Cys Arg Glu Asn Ile Ile Asp Asp Phe
 165 170 175

Phe Cys Asp Leu Leu Pro Leu Val Glu Leu Ala Cys Gly Glu Lys Gly
 180 185 190

Gly Tyr Lys Ile Met Met Tyr Phe Leu Leu Ala Ser Asn Val Ile Cys
 195 200 205

Pro Ala Val Leu Ile Leu Ala Ser Tyr Leu Phe Ile Ile Thr Ser Val
 210 215 220

Leu Arg Ile Ser Ser Ser Lys Gly Tyr Leu Lys Ala Phe Ser Thr Cys
 225 230 235 240

Ser Ser His Leu Thr Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr
 245 250 255

Ile Tyr Ala Leu Pro Arg Ser Ser Tyr Ser Phe Asp Met Asp Lys Ile
 260 265 270

Val Ser Thr Phe Tyr Thr Val Val Phe Pro Met Leu Asn Leu Met Ile
 275 280 285

Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Lys Lys Leu Leu
 290 295 300

<210> 237
 <211> 939
 <212> DNA
 <213> Homo Sapiens
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 <221> CDS
 <222> (1)..(936)
 <223>

<400> 237
 atg gaa gca gga aac caa aca gga ttt tta gag ttt atc ctt ctc gga 48
 Met Glu Ala Gly Asn Gln Thr Gly Phe Leu Glu Phe Ile Leu Leu Gly
 1 5 10 15
 ctc tot gag gat cca gaa cta cag ccg ttc ata ttt ggg ctg ttc ctg 96
 Leu Ser Glu Asp Pro Glu Leu Gln Pro Phe Ile Phe Gly Leu Phe Leu
 20 25 30

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tcc atg tac ctg gtg acg gtg ctg gga aac ctg ctg atc atc ctg gcc 144
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
35 40 45

atc agc tct gac tcc cac ctg cac acc ccc atg tac ttc ttc ctg tcc 192
Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50 55 60

aac ctg tcc tgg gtt gac atc tgt ttc agc act tgc atc gtc ccc aag 240
Asn Leu Ser Trp Val Asp Ile Cys Phe Ser Thr Cys Ile Val Pro Lys
65 70 75 80

atg ctg gtg aac atc cag acc gag aac aaa gcc atc tcc tac atg gac 268
Met Leu Val Asn Ile Gln Thr Glu Asn Lys Ala Ile Ser Tyr Met Asp
85 90 95

tgc ctg aca cag gtc tat ttc tcc atg ttt ttt cct att ctg gac acg 336
Cys Leu Thr Gln Val Tyr Phe Ser Met Phe Phe Pro Ile Leu Asp Thr
100 105 110

cta ctg ctg acc gtg atg gcc tat gac cgg ttt gtg gct gtc tgc cac 384
Leu Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys His
115 120 125

cct ctg cac tat atg atc atc atg aac ccc cac ctg tgt ggc ctg ctg 432
Pro Leu His Tyr Met Ile Ile Met Asn Pro His Leu Cys Gly Leu Leu
130 135 140

gtt ttt gtc acc tgg ctg atc att ggt gtc atg aca tcc ctg ctg cat att 480
Val Phe Val Thr Trp Leu Ile Gly Val Met Thr Ser Leu Leu His Ile
145 150 155 160

tct ctg atg atg cat cta atc ttc tgt aaa gat ttt gaa att cca cat 528
Ser Leu Met Met His Leu Ile Phe Cys Lys Asp Phe Glu Ile Pro His
165 170 175

ttt ttc tgc gaa ctg acg tac atc ctg cag ctg gcc tgc tct gat acc 576
Phe Phe Cys Glu Leu Thr Tyr Ile Leu Gln Leu Ala Cys Ser Asp Thr
180 185 190

ttc ctg aac agc acg ttg ata tac ttt atg acg ggt gtg ctg ggc gtt 624
Phe Leu Asn Ser Thr Leu Ile Tyr Phe Met Thr Gly Val Leu Gly Val
195 200 205

ttt ccc ctg ctt ggg atc att ttc tct tat tca cga att gct tca tcc 672
Phe Pro Leu Leu Gly Ile Ile Phe Ser Tyr Ser Arg Ile Ala Ser Ser
210 215 220

ata agg aag atg tcc tca tct ggg gga aaa caa aaa gca ctt tcc acc 720
Ile Arg Lys Met Ser Ser Ser Gly Gly Lys Gln Lys Ala Leu Ser Thr
225 230 235 240

tgt ggg tct cac ctg tcc gtc gtt tct tta ttt tat ggg aca ggc att 768
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Gly Ile
245 250 255

ggg gtc cac ttc act tct gcg gtg act cac tct tcc cag aaa atc tcc 816
Gly Val His Phe Thr Ser Ala Val Thr His Ser Ser Gln Lys Ile Ser
260 265 270

gtg gcc tgg gtg atg tac act gtg gtc acc ccc atg ttg aac ccc ttc 864

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Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
 275 280 285
 atc tac agc ctg agg aac aag gat gtg aag gga gcc ctg ggg agt ctc 912
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Gly Ser Leu
 290 295 300
 ctc agc agg gca gcc tot tgt ttg tga 939
 Leu Ser Arg Ala Ala Ser Cys Leu
 305 310
 <210> 238
 <211> 312
 <212> PRT
 <213> Homo Sapiens
 <400> 238
 Met Glu Ala Gly Asn Gln Thr Gly Phe Leu Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Leu Ser Glu Asp Pro Glu Leu Gln Pro Phe Ile Phe Gly Leu Phe Leu
 20 25 30
 Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Trp Val Asp Ile Cys Phe Ser Thr Cys Ile Val Pro Lys
 65 70 75 80
 Met Leu Val Asn Ile Gln Thr Glu Asn Lys Ala Ile Ser Tyr Met Asp
 85 90 95
 Cys Leu Thr Gln Val Tyr Phe Ser Met Phe Phe Pro Ile Leu Asp Thr
 100 105 110
 Leu Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys His
 115 120 125
 Pro Leu His Tyr Met Ile Ile Met Asn Pro His Leu Cys Gly Leu Leu
 130 135 140
 Val Phe Val Thr Trp Leu Ile Gly Val Met Thr Ser Leu Leu His Ile
 145 150 155 160
 Ser Leu Met Met His Leu Ile Phe Cys Lys Asp Phe Glu Ile Pro His
 165 170 175

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PCT/BE01/00162

Phe Phe Cys Glu Leu Thr Tyr Ile Leu Gln Leu Ala Cys Ser Asp Thr
180 185 190

Phe Leu Asn Ser Thr Leu Ile Tyr Phe Met Thr Gly Val Leu Gly Val
195 200 205

Phe Pro Leu Leu Gly Ile Ile Phe Ser Tyr Ser Arg Ile Ala Ser Ser
210 215 220

Ile Arg Lys Met Ser Ser Ser Gly Gly Lys Gln Lys Ala Leu Ser Thr
225 230 235 240

Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Gly Ile
245 250 255

Gly Val His Phe Thr Ser Ala Val Thr His Ser Ser Gln Lys Ile Ser
260 265 270

Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
275 280 285

Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Gly Ser Leu
290 295 300

Leu Ser Arg Ala Ala Ser Cys Leu
305 310

<210> 239
<211> 939
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(936)
<223>

<400> 239
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Met Lys Ala Gly Asn Phe Ser Asp Thr Pro Glu Phe Phe Leu Leu Gly
1 5 10 15
ttg tca ggg gat ccg gag ctg cag ccc atc ctc ttc atg ctg ttc ctg 96
Leu Ser Gly Asp Pro Glu Leu Gln Pro Ile Leu Phe Met Leu Phe Leu
20 25 30
tcc atg tac ctg gcc aca atg ctg ggg aac ctg ctc atc atc ctg gcc 144
Ser Met Tyr Leu Ala Thr Met Leu Gly Asn Leu Leu Ile Ile Leu Ala
35 40 45

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gtc aac tot gac tcc cac ctc cac acc ccc atg tac ttc ctc ctc tot    192
Val Asn Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Leu Leu Ser
50                    55                    60

atc ctg tcc ttg gtc gac atc tgt ttc acc tcc acc acg atg ccc aag    240
Ile Leu Ser Leu Val Asp Ile Cys Phe Thr Ser Thr Thr Met Pro Lys
65                    70                    75                    80

atg ctg gtg aac atc cag gca cag gct caa tcc atc aat tac aca ggc    288
Met Leu Val Asn Ile Gln Ala Gln Ala Gln Ser Ile Asn Tyr Thr Gly
85                    90                    95

tgc ctc acc caa atc tgc ttt gtc ctg gtt ttt gtt gga ttg gaa aat    336
Cys Leu Thr Gln Ile Cys Phe Val Leu Val Phe Val Gly Leu Glu Asn
100                   105                   110

gga att ctg gtc atg atg gcc tat gat cga ttt gtg gcc atc tgt cac    384
Gly Ile Leu Val Met Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
115                   120                   125

cna ctg agg tac aat gtc atc atg aac ccc aaa ctc tgt ggg ctg ctg    432
Pro Leu Arg Tyr Asn Val Ile Met Asn Pro Lys Leu Cys Gly Leu Leu
130                   135                   140

ctt ctg ctg tcc ttc atc gtt agt gtc ctg gat gct ctg ctg cac acg    480
Leu Leu Leu Ser Phe Ile Val Ser Val Leu Asp Ala Leu Leu His Thr
145                   150                   155                   160

ttg atg gtg cta cag ctg acc ttc tgc ata gac ctg gaa att ccc cac    538
Leu Met Val Leu Gln Leu Thr Phe Cys Ile Asp Leu Glu Ile Pro His
165                   170                   175

ttt ttc tgt gaa cta gct cat att ctc aag ctc gcc tgt tct gat gtc    576
Phe Phe Cys Glu Leu Ala His Ile Leu Lys Leu Ala Cys Ser Asp Val
180                   185                   190

ctc atc aat aac atc ctg gtg tat ttg gtg acc agc ctg tta ggt gtt    624
Leu Ile Asn Asn Ile Leu Val Tyr Leu Val Thr Ser Leu Leu Gly Val
195                   200                   205

gtt cct ctc tct ggg atc att ttc tct tac aca cga att gtc tcc tct    672
Val Pro Leu Ser Gly Ile Ile Phe Ser Tyr Thr Arg Ile Val Ser Ser
210                   215                   220

gtc atg aaa att cca tca gct ggt gga aag tat aaa gct ttt tcc atc    720
Val Met Lys Ile Pro Ser Ala Gly Gly Lys Tyr Lys Ala Phe Ser Ile
225                   230                   235                   240

tgc ggg tca cat tta atc gtt gtt tcc ttg ttt tat gga aca ggg ttt    768
Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Gly Phe
245                   250                   255

ggg gtg tac ctt agt tct ggg gct acc cac tcc tcc agg aag ggt gca    816
Gly Val Tyr Leu Ser Ser Gly Ala Thr His Ser Ser Arg Lys Gly Ala
260                   265                   270

ata gca tca gtg atg tat acc gtg gtc acc ccc atg ctg aac cca ctc    864
Ile Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Leu
275                   280                   285

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att tac agc ctg aga aac aag gac atg ttg aag got ttg agg aaa cta      912
ile tyr ser leu arg asn lys asp met leu lys ala leu arg lys leu
    290                295                300

ata tot agg ata cca tct ttc cat tga      939
ile ser arg ile pro ser phe his
    305                310

<210> 240
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<212> PRT
<213> Homo Sapiens

<400> 240
Met Lys Ala Gly Asn Phe Ser Asp Thr Pro Glu Phe Phe Leu Leu Gly
1      5      10      15

Leu Ser Gly Asp Pro Glu Leu Gln Pro Ile Leu Phe Met Leu Phe Leu
20      25      30

Ser Met Tyr Leu Ala Thr Met Leu Gly Asn Leu Leu Ile Ile Leu Ala
35      40      45

Val Asn Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Leu Leu Ser
50      55      60

Ile Leu Ser Leu Val Asp Ile Cys Phe Thr Ser Thr Thr Met Pro Lys
65      70      75      80

Met Leu Val Asn Ile Gln Ala Gln Ala Gln Ser Ile Asn Tyr Thr Gly
85      90      95

Cys Leu Thr Gln Ile Cys Phe Val Leu Val Phe Val Gly Leu Glu Asn
100     105     110

Gly Ile Leu Val Met Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
115     120     125

Pro Leu Arg Tyr Asn Val Ile Met Asn Pro Lys Leu Cys Gly Leu Leu
130     135     140

Leu Leu Leu Ser Phe Ile Val Ser Val Leu Asp Ala Leu Leu His Thr
145     150     155     160

Leu Met Val Leu Gln Leu Thr Phe Cys Ile Asp Leu Glu Ile Pro His
165     170     175

Phe Phe Cys Glu Leu Ala His Ile Leu Lys Leu Ala Cys Ser Asp Val

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50	55	60	
aac ctg tcc ttt gtt gac atc tgt ttc atc tcc acc aca gtc ccc aag			240
Asn Leu Ser Phe Val Asp Ile Cys Phe Ile Ser Thr Thr Val Pro Lys			
65	70	75	80
atg cta gtg agc atc cag gca cgg agc aaa gac atc tcc tac atg ggg			288
Met Leu Val Ser Ile Gln Ala Arg Ser Lys Asp Ile Ser Tyr Met Gly			
85	90		95
tgc ctc act cag gtg tat ttt tta atg atg ttt gct gga atg gat act			336
Cys Leu Thr Gln Val Tyr Phe Leu Met Met Phe Ala Gly Met Asp Thr			
100	105		110
ttc cta ctg gcc gtg atg gcc tat gac cgg ttt gtg gcc atc tgc cac			384
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His			
115	120		125
cca ctg cac tac acg gtc atc atg aac ccc tgc ctc tgt ggc ctc ctg			432
Pro Leu His Tyr Thr Val Ile Met Asn Pro Cys Leu Cys Gly Leu Leu			
130	135		140
gtt ctg gca tct tgg ttc atc att ttc tgg ttc tcc ctg gtt cat att			480
Val Leu Ala Ser Trp Phe Ile Ile Phe Trp Phe Ser Leu Val His Ile			
145	150		155
cta ctg atg aag agg ttg acc ttc tcc aca ggc act gag att cag cat			528
Leu Leu Met Lys Arg Leu Thr Phe Ser Thr Gly Thr Glu Ile Pro His			
165	170		175
ttc ttc tgt gaa cgg gct cag gtc ctc aag gtg gcc tgc tct aac acc			576
Phe Phe Cys Glu Pro Ala Gln Val Leu Lys Val Ala Cys Ser Asn Thr			
180	185		190
ctc ctc aat aac att gtc ttg tat gtg gcc acg gca ctg ctg ggt gtg			624
Leu Leu Asn Asn Ile Val Leu Tyr Val Ala Thr Ala Leu Leu Gly Val			
195	200		205
ttt cct gta gct ggg atc ctc ttc tcc tac tct cag att gtc tcc tcc			672
Phe Pro Val Ala Gly Ile Leu Phe Ser Tyr Ser Gln Ile Val Ser Ser			
210	215		220
tta atg gga atg tcc tcc acc aag ggc aag tac aaa gcc ttt tcc acc			720
Leu Met Gly Met Ser Thr Lys Gly Lys Tyr Lys Ala Phe Ser Thr			
225	230		235
tgt gga tct cac ctc tgt gtg gtc tcc ttg ttc tat gga aca gga ctt			768
Cys Gly Ser His Leu Cys Val Val Ser Leu Phe Tyr Gly Thr Gly Leu			
245	250		255
ggg gtc tat ctg agt tct gct gtg acc cat tct tcc cag agc agc tcc			816
Gly Val Tyr Leu Ser Ser Ala Val Thr His Ser Ser Gln Ser Ser Ser			
260	265		270
acc gcc tca gtg atg tac gcc atg gtc acc ccc atg ctg aac ccc ttc			864
Thr Ala Ser Val Met Tyr Ala Met Val Thr Pro Met Leu Asn Pro Phe			
275	280		285
atc tac agc ctg agg aac aag gat gtg aag ggg gcc ctg gaa aga ctc			912
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Glu Arg Leu			
290	295		300

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ctc agc agg gcc gac tct tgt cca tga 939
 Leu Ser Arg Ala Asp Ser Cys Pro
 305 310

<210> 242
 <211> 312
 <212> PRT
 <213> Homo Sapiens

<400> 242

Met Glu Ala Glu Asn Leu Thr Glu Leu Ser Lys Phe Leu Leu Leu Gly
 1 5 10 15

Leu Ser Asp Asp Pro Glu Leu Gln Pro Val Leu Phe Gly Leu Phe Leu
 20 25 30

Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45

Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60

Asn Leu Ser Phe Val Asp Ile Cys Phe Ile Ser Thr Thr Val Pro Lys
 65 70 75 80

Met Leu Val Ser Ile Gln Ala Arg Ser Lys Asp Ile Ser Tyr Met Gly
 85 90 95

Cys Leu Thr Gln Val Tyr Phe Leu Met Met Phe Ala Gly Met Asp Thr
 100 105 110

Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
 115 120 125

Pro Leu His Tyr Thr Val Ile Met Asn Pro Cys Leu Cys Gly Leu Leu
 130 135 140

Val Leu Ala Ser Trp Phe Ile Ile Phe Trp Phe Ser Leu Val His Ile
 145 150 155 160

Leu Leu Met Lys Arg Leu Thr Phe Ser Thr Gly Thr Glu Ile Pro His
 165 170 175

Phe Phe Cys Glu Pro Ala Gln Val Leu Lys Val Ala Cys Ser Asn Thr
 180 185 190

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PCT/BE01/00162

Leu Leu Asn Asn Ile Val Leu Tyr Val Ala Thr Ala Leu Leu Gly Val
195 200 205

Phe Pro Val Ala Gly Ile Leu Phe Ser Tyr Ser Gln Ile Val Ser Ser
210 215 220

Leu Met Gly Met Ser Ser Thr Lys Gly Lys Tyr Lys Ala Phe Ser Thr
225 230 235 240

Cys Gly Ser His Leu Cys Val Val Ser Leu Phe Tyr Gly Thr Gly Leu
245 250 255

Gly Val Tyr Leu Ser Ser Ala Val Thr His Ser Ser Gln Ser Ser Ser
260 265 270

Thr Ala Ser Val Met Tyr Ala Met Val Thr Pro Met Leu Asn Pro Phe
275 280 285

Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Glu Arg Leu
290 295 300

Leu Ser Arg Ala Asp Ser Cys Pro
305 310

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Met Pro Met Gln Leu Leu Leu Thr Asp Phe Ile Ile Phe Ser Ile Arg
1 5 10 15
ttc atc atc aac agc atg gaa ggc aga aac caa aca gct att tca aaa 96
Phe Ile Ile Asn Ser Met Glu Ala Arg Asn Gln Thr Ala Ile Ser Lys
20 25 30
ttc ctt ctc ctg gga ctg ata gag gat ccg gaa ctg cag ccc gtc ctt 144
Phe Leu Leu Leu Gly Leu Ile Glu Asp Pro Glu Leu Gln Pro Val Leu
35 40 45
ttc agc ctg ttc ctg tcc atg tac ttg gtc acc atc ctg ggg aac ctg 193
Phe Ser Leu Phe Leu Ser Met Tyr Leu Val Thr Ile Leu Gly Asn Leu
50 55 60
ctc atc ctc ttg gct gtc atc tct gac tct cac ctc cac acc ccc atg 240

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Leu Ile Leu Leu Ala Val Ile Ser Asp Ser His Leu His Thr Pro Met
65          70          75          80
tac ttc ttc ctc tcc aat ctc tcc ttt ttg gac att tgt tta agc aca      288
Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu Asp Ile Cys Leu Ser Thr
          85          90          95
acc acg atc cca aag atg ctg gtg aac atc caa gct cag aat cgg agc      336
Thr Thr Ile Pro Lys Met Leu Val Asn Ile Gln Ala Gln Asn Arg Ser
          100          105          110
atc acg tac tca ggc tgc ctc acc cag atc tgc ttt gtc ttg ttt ttt      384
Ile Thr Tyr Ser Gly Cys Leu Thr Gln Ile Cys Phe Val Leu Phe Phe
          115          120          125
gct ggc ttg gaa aat tgt ctc ctt gca gca atg gcc tat gac cgc tat      432
Ala Gly Leu Glu Asn Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr
          130          135          140
gtg gcc att tgt cac ccc ctt aga tac aca gtc atc atg aac ccc cgc      480
Val Ala Ile Cys His Pro Leu Arg Tyr Thr Val Ile Met Asn Pro Arg
          145          150          155          160
ctc tgt ggc ctg ctg att ctt ctc tct ctg ttg act agt gtt gtg aat      528
Leu Cys Gly Leu Leu Ile Leu Leu Ser Leu Leu Thr Ser Val Val Asn
          165          170          175
gcc ctt ctt ctc agc ctg atg gtg ttg agg ctg tcc ttc tgc aca gac      576
Ala Leu Leu Ser Leu Met Val Leu Arg Leu Ser Phe Cys Thr Asp
          180          185          190
ctg gaa atc cag ctc ttc ttc tgt gaa ctg gct cag gtc atc caa ctc      624
Leu Glu Ile Pro Leu Phe Phe Cys Glu Leu Ala Gln Val Ile Gln Leu
          195          200          205
acc tgt tca gac acc ctc atc aat aac atc ctg ata tat ttt gca gct      672
Thr Cys Ser Asp Thr Leu Ile Asn Asn Ile Leu Ile Tyr Phe Ala Ala
          210          215          220
tgc ata ttt ggt ggt gtt cct ctg tct gga atc att ttg tct tac act      720
Cys Ile Phe Gly Gly Val Pro Leu Ser Gly Ile Ile Leu Ser Tyr Thr
          225          230          235          240
cag atc acc tcc tgt gtt ttg aga atg cca tca gca agt gga aag cac      768
Gln Ile Thr Ser Cys Val Leu Arg Met Pro Ser Ala Ser Gly Lys His
          245          250          255
aaa gca gtt tcc acc tgt ggg tct cac ctc tcc att gtt ctc ttg ttc      816
Lys Ala Val Ser Thr Cys Gly Ser His Leu Ser Ile Val Leu Leu Phe
          260          265          270
tat ggg gca ggt ttg ggg gtg tac att agt tct gtg gtt act gac tca      864
Tyr Gly Ala Gly Leu Gly Val Tyr Ile Ser Ser Val Val Thr Asp Ser
          275          280          285
cct agg aag act gca gtg gct tca gtg atg tat tct gtg ttc cct caa      912
Pro Arg Lys Thr Ala Val Ala Ser Val Met Tyr Ser Val Phe Pro Gln
          290          295          300
atg gtg aac ccc ttt atc tat agt ctg agg aat aag gac atg aaa gga      960
Met Val Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly

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PCT/BE01/00162

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305              310              315              320
acc ttg agg aag ttc ata ggg agg ata cct tct ctt ctg tgg tgt gcc      1008
Thr Leu Arg Lys Phe Ile Gly Arg Ile Pro Ser Leu Leu Trp Cys Ala
              325              330              335

att tgc ttt gga ttc agg ttt cta gag taa      1038
Ile Cys Phe Gly Phe Arg Phe Leu Glu
              340              345

<210> 244
<211> 345
<212> PRT
<213> Homo Sapiens

<400> 244
Met Pro Met Gln Leu Leu Leu Thr Asp Phe Ile Ile Phe Ser Ile Arg
1              5              10              15

Phe Ile Ile Asn Ser Met Glu Ala Arg Asn Gln Thr Ala Ile Ser Lys
20              25              30

Phe Leu Leu Leu Gly Leu Ile Glu Asp Pro Glu Leu Gln Pro Val Leu
35              40              45

Phe Ser Leu Phe Leu Ser Met Tyr Leu Val Thr Ile Leu Gly Asn Leu
50              55              60

Leu Ile Leu Leu Ala Val Ile Ser Asp Ser His Leu His Thr Pro Met
65              70              75              80

Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu Asp Ile Cys Leu Ser Thr
85              90              95

Thr Thr Ile Pro Lys Met Leu Val Asn Ile Gln Ala Gln Asn Arg Ser
100             105             110

Ile Thr Tyr Ser Gly Cys Leu Thr Gln Ile Cys Phe Val Leu Phe Phe
115             120             125

Ala Gly Leu Glu Asn Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr
130             135             140

Val Ala Ile Cys His Pro Leu Arg Tyr Thr Val Ile Met Asn Pro Arg
145             150             155             160

Leu Cys Gly Leu Leu Ile Leu Leu Ser Leu Leu Thr Ser Val Val Asn
165             170             175

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Ala Leu Leu Leu Ser Leu Met Val Leu Arg Leu Ser Phe Cys Thr Asp
 180 185 190

Leu Glu Ile Pro Leu Phe Phe Cys Glu Leu Ala Gln Val Ile Gln Leu
 195 200 205

Thr Cys Ser Asp Thr Leu Ile Asn Asn Ile Leu Ile Tyr Phe Ala Ala
 210 215 220

Cys Ile Phe Gly Gly Val Pro Leu Ser Gly Ile Ile Leu Ser Tyr Thr
 225 230 235 240

Gln Ile Thr Ser Cys Val Leu Arg Met Pro Ser Ala Ser Gly Lys His
 245 250 255

Lys Ala Val Ser Thr Cys Gly Ser His Leu Ser Ile Val Leu Leu Phe
 260 265 270

Tyr Gly Ala Gly Leu Gly Val Tyr Ile Ser Ser Val Val Thr Asp Ser
 275 280 285

Pro Arg Lys Thr Ala Val Ala Ser Val Met Tyr Ser Val Phe Pro Gln
 290 295 300

Met Val Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly
 305 310 315 320

Thr Leu Arg Lys Phe Ile Gly Arg Ile Pro Ser Leu Leu Trp Cys Ala
 325 330 335

Ile Cys Phe Gly Phe Arg Phe Leu Glu
 340 345

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 <211> 936
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 <213> Homo Sapiens

<220>
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<400> 245
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 Met Gly Pro Arg Asn Gln Thr Ala Val Ser Gln Phe Leu Leu Met Lys
 1 5 10 15

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gtg aca gag gac cca gaa ctg aag tta atc cct ttc agc ctg ttc ctg      96
Val Thr Glu Asp Pro Glu Leu Lys Ile Pro Phe Ser Leu Phe Leu
      20      25      30

tcc atg tac ctg gtc acc atc ctg ggg aac ctg ctg att ctg ctg gct      144
Ser Met Tyr Leu Val Thr Ile Leu Gly Asn Leu Leu Ile Leu Leu Ala
      35      40      45

gtc atc tct gac tcc cac ctg cac acc ccc atg tac ttc ctt ctg ttt      192
Val Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Leu Leu Phe
      50      55      60

aat ctg tcc ttt act gac atc tgt tta acc aca acc aca gtc cca aag      240
Asn Leu Ser Phe Thr Asp Ile Cys Leu Thr Thr Thr Val Pro Lys
      65      70      75      80

atc cta gtg aac atc caa gct cag aat cag agt atc act tac aca ggc      288
Ile Leu Val Asn Ile Gln Ala Gln Asn Gln Ser Ile Thr Tyr Thr Gly
      85      90      95

tgc ctg acc cag atc tgt ctt gtc ttg gtt ttt gct ggc ttg gaa agt      336
Cys Leu Thr Gln Ile Cys Leu Val Leu Val Phe Ala Gly Leu Glu Ser
      100      105      110

tgc ttt ctt gca gtc atg gcc tac gac cgc tat gtg gcc att tgc cac      384
Cys Phe Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
      115      120      125

caa ctg agg tac aca gtc ctg atg aat gtc cat ttc tgg ggc ttg ctg      432
Pro Leu Arg Tyr Thr Val Leu Met Asn Val His Phe Trp Gly Leu Leu
      130      135      140

att ctt ctg tcc atg ttc atg agc act atg gat gcc ctg gtt cag agt      480
Ile Leu Leu Ser Met Phe Met Ser Thr Met Asp Ala Leu Val Gln Ser
      145      150      155      160

ctg atg gta ttg cag ctg tcc ttc tgc aaa aac gtt gaa atc cct ttg      528
Leu Met Val Leu Gln Leu Ser Phe Cys Lys Asn Val Glu Ile Pro Leu
      165      170      175

ttc ttc tgt gaa gtc gtt cag gtc atc aag ctg gcc tgt tct gac acc      576
Phe Phe Cys Glu Val Val Gln Val Ile Lys Leu Ala Cys Ser Asp Thr
      180      185      190

ctc atc aac aac atc ctg ata tat ttt gca agt agt gta ttt ggt gca      624
Leu Ile Asn Asn Ile Leu Ile Tyr Phe Ala Ser Ser Val Phe Gly Ala
      195      200      205

att cct ctg tot gga ata att ttc tct tat tct caa ata gtc acc tct      672
Ile Pro Leu Ser Gly Ile Ile Phe Ser Tyr Ser Gln Ile Val Thr Ser
      210      215      220

gtt ctg aga atg cca tca gca aga gga aag tat aaa gcg ttt tcc acc      720
Val Leu Arg Met Pro Ser Ala Arg Gly Lys Tyr Lys Ala Phe Ser Thr
      225      230      235      240

tgt ggc tgt cac ctg tct gtt ttt tcc ttg ttc tat ggg aca gct ttt      768
Cys Gly Cys His Leu Ser Val Phe Ser Leu Phe Tyr Gly Thr Ala Phe
      245      250      255

ggg gtg tac att agt tct gct gtt gct gag tct tcc cga att act gct      816

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Gly Val Tyr Ile Ser Ser Ala Val Ala Glu Ser Ser Arg Ile Thr Ala
 260 265 270
 gtg gct tca gtg atg tac act gtg gtc cct caa atg atg aac ccc ttc 864
 Val Ala Ser Val Met Tyr Thr Val Val Pro Gln Met Met Asn Pro Phe
 275 280 285
 atc tac agc ctg aga aat aag gag atg aag aaa gct ttg agg aaa ctt 912
 Ile Tyr Ser Leu Arg Asn Lys Glu Met Lys Lys Ala Leu Arg Lys Leu
 290 295 300
 att ggt agg ctg ttt cct ttt tag 936
 Ile Gly Arg Leu Phe Pro Phe
 305 310

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 Met Gly Pro Arg Asn Gln Thr Ala Val Ser Glu Phe Leu Leu Met Lys
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 20 25 30
 Ser Met Tyr Leu Val Thr Ile Leu Gly Asn Leu Leu Ile Leu Leu Ala
 35 40 45
 Val Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Leu Leu Phe
 50 55 60
 Asn Leu Ser Phe Thr Asp Ile Cys Leu Thr Thr Thr Val Pro Lys
 65 70 75 80
 Ile Leu Val Asn Ile Gln Ala Gln Asn Gln Ser Ile Thr Tyr Thr Gly
 85 90 95
 Cys Leu Thr Gln Ile Cys Leu Val Leu Val Phe Ala Gly Leu Glu Ser
 100 105 110
 Cys Phe Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu Arg Tyr Thr Val Leu Met Asn Val His Phe Trp Gly Leu Leu
 130 135 140
 Ile Leu Leu Ser Met Phe Met Ser Thr Met Asp Ala Leu Val Gln Ser
 145 150 155 160

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Leu Met Val Leu Gln Leu Ser Phe Cys Lys Asn Val Glu Ile Pro Leu
 165 170 175
 Phe Phe Cys Glu Val Val Gln Val Ile Lys Leu Ala Cys Ser Asp Thr
 180 185 190
 Leu Ile Asn Asn Ile Leu Ile Tyr Phe Ala Ser Ser Val Phe Gly Ala
 195 200 205
 Ile Pro Leu Ser Gly Ile Ile Phe Ser Tyr Ser Gln Ile Val Thr Ser
 210 215 220
 Val Leu Arg Met Pro Ser Ala Arg Gly Lys Tyr Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Gly Cys His Leu Ser Val Phe Ser Leu Phe Tyr Gly Thr Ala Phe
 245 250 255
 Gly Val Tyr Ile Ser Ser Ala Val Ala Glu Ser Ser Arg Ile Thr Ala
 260 265 270
 Val Ala Ser Val Met Tyr Thr Val Val Pro Gln Met Met Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Glu Met Lys Lys Ala Leu Arg Lys Leu
 290 295 300
 Ile Gly Arg Leu Phe Pro Phe
 305 310
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 <211> 936
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 <322> (1) .. (933)
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 Met Gly Lys Glu Asn Cys Thr Thr Val Ala Glu Phe Ile Leu Leu Gly
 1 5 10 15
 cta tca gat gtc cct gag ttg aga gtc tgc ctc ttc ctg ctg ttc ctt 96
 Leu Ser Asp Val Pro Glu Leu Arg Val Cys Leu Phe Leu Leu Phe Leu
 20 25 30

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ctc atc tat gga gtc aag ttg tta gcc aat ctg ggc atg act gca ctg      144
Leu Ile Tyr Gly Val Thr Leu Leu Ala Asn Leu Gly Met Thr Ala Leu
      35              40              45

att cag gtc agc tct cgg ctc cac acc ecc gtg tac ttt ttc ctc agc      192
Ile Gln Val Ser Ser Arg Leu His Thr Pro Val Tyr Phe Phe Leu Ser
      50              55              60

cac ttg tcc ttt gta gat ttc tgc tac tcc tca ata att gtg cca aag      240
His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Val Pro Lys
      65              70              75              80

atg ttg gct aat atc ttt aac aag gac aaa gcc atc tcc ttc cta ggg      288
Met Leu Ala Asn Ile Phe Asn Lys Arg Lys Ala Ile Ser Phe Leu Gly
      85              90              95

tgc atg gtg caa ttc tac ttg ttt tgc aca tgt gga gtc act gag gtc      336
Cys Met Val Gln Phe Tyr Leu Phe Cys Thr Cys Gly Val Thr Glu Val
      100             105             110

ttc ctg ctg gcc gtg atg gcc tat gac cgc ttt gtg gcc atc tgt aac      384
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn
      115             120             125

ccc ctg ctg tac atg gtg acc atg tct caa aag ctg cgt gtg gag ctg      432
Pro Leu Leu Tyr Met Val Thr Met Ser Gln Lys Leu Arg Val Glu Leu
      130             135             140

acc tct tgc tgc tac ttc tgt ggg aag gtg tgt tct ctg att cac tgg      480
Thr Ser Cys Cys Tyr Phe Cys Gly Thr Val Cys Ser Leu Ile His Ser
      145             150             155             160

tcc tta gct ctt agg atc ctc ttc tat aga tct aat gtg att aac cac      528
Ser Leu Ala Leu Arg Ile Leu Phe Tyr Arg Ser Asn Val Ile Asn His
      165             170             175

ttc ttc tgt gat cta ccc cct ctc cta agt ctt gct tgc tct gat gtc      576
Phe Phe Cys Asp Leu Pro Pro Leu Leu Ser Leu Ala Cys Ser Asp Val
      180             185             190

act gtg aat gag aca ctg ctg ttc ctg gtg gcc act ttg aat gag agt      624
Thr Val Asn Glu Thr Leu Leu Phe Leu Val Ala Thr Leu Asn Glu Ser
      195             200             205

gtt acc atc atg atc atc ctc acc tcc tac ctg cta att ctc acc act      672
Val Thr Ile Met Ile Ile Leu Thr Ser Tyr Leu Leu Ile Leu Thr Thr
      210             215             220

atc ctg aag ala cac tct gca gag agc agg cac aaa gct ttc tcc acc      720
Ile Leu Lys Ile His Ser Ala Glu Ser Arg His Lys Ala Phe Ser Thr
      225             230             235             240

tgt gcc tcc cac ctc aca gcc atc act gtc tcc cat gga aca atc ctt      768
Cys Ala Ser His Leu Thr Ala Ile Thr Val Ser His Gly Thr Ile Leu
      245             250             255

tac att tat tgc agg ccg agt tca ggc aac agt gga gat gtt gac aaa      816
Tyr Ile Tyr Cys Arg Pro Ser Ser Gly Asn Ser Gly Asp Val Asp Lys
      260             265             270

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gtg gcc acc gtg ttc tac aca gtt gtg att ccc atg ctg aac ccc ctg 864
 Val Ala Thr Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
 275 280 285

atc tac agc ctg aga aat aag gat gtg aac aaa gct ctc aga aaa gtg 912
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Asn Lys Ala Leu Arg Lys Val
 290 295 300

atg gcc tcc aaa att cac tcc tag 936
 Met Gly Ser Lys Ile His Ser
 305 310

<210> 248
 <211> 311
 <212> PRT
 <213> Homo Sapiens

<400> 248

Met Gly Lys Glu Asn Cys Thr Thr Val Ala Glu Phe Ile Leu Leu Gly
 1 5 10 15

Leu Ser Asp Val Pro Glu Leu Arg Val Cys Leu Phe Leu Leu Phe Leu
 20 25 30

Leu Ile Tyr Gly Val Thr Leu Leu Ala Asn Leu Gly Met Thr Ala Leu
 35 40 45

Ile Glu Val Ser Ser Arg Leu His Thr Pro Val Tyr Phe Phe Leu Ser
 50 55 60

His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Val Pro Lys
 65 70 75 80

Met Leu Ala Asn Ile Phe Asn Lys Asp Lys Ala Ile Ser Phe Leu Gly
 85 90 95

Cys Met Val Gln Phe Tyr Leu Phe Cys Thr Cys Gly Val Thr Glu Val
 100 105 110

Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn
 115 120 125

Pro Leu Leu Tyr Met Val Thr Met Ser Gln Lys Leu Arg Val Glu Leu
 130 135 140

Thr Ser Cys Cys Tyr Phe Cys Gly Thr Val Cys Ser Leu Ile His Ser
 145 150 155 160

Ser Leu Ala Leu Arg Ile Leu Phe Tyr Arg Ser Asn Val Ile Asn His

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165 170 175
 Phe Phe Cys Asp Leu Pro Pro Leu Leu Ser Leu Ala Cys Ser Asp Val
 180 185 190
 Thr Val Asn Glu Thr Leu Leu Phe Leu Val Ala Thr Leu Asn Glu Ser
 195 200 205
 Val Thr Ile Met Ile Ile Leu Thr Ser Tyr Leu Leu Ile Leu Thr Thr
 210 215 220
 Ile Leu Lys Ile His Ser Ala Glu Ser Arg His Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Thr Ala Ile Thr Val Ser His Gly Thr Ile Leu
 245 250 255
 Tyr Ile Tyr Cys Arg Pro Ser Ser Gly Asn Ser Gly Asp Val Asp Lys
 260 265 270
 Val Ala Thr Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Asn Lys Ala Leu Arg Lys Val
 290 295 300
 Met Gly Ser Lys Ile His Ser
 305 310

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 <212> DNA
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 <222> (1)..(939)
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 Met Leu Leu Thr Asp Arg Asn Thr Ser Gly Thr Thr Phe Thr Leu Leu
 1 5 10 15
 ggc ttc tca gat tac cca gaa ctg caa gtc cca ctc ttc ctg gtt ttt 96
 Gly Phe Ser Asp Tyr Pro Glu Leu Glu Val Pro Leu Phe Leu Val Phe
 20 25 30
 ctg gcc atc tac aat gtc act gtg cta ggg aat att ggg ttg att gtg 144
 Leu Ala Ile Tyr Asn Val Thr Val Leu Gly Asn Ile Gly Leu Ile Val

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35	40	45	
atc atc aaa atc aac ccc aaa ctg cat acc ccc atg tac ttt ttc etc Ile Ile Lys Ile Asn Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu 50 55 60			192
agc caa ctc tcc ttt gtg gat ttc tgc tat tcc tcc atc att gct ccc Ser Gln Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Ala Pro 65 70 75 80			240
aag atg ttg gtg aac ctt gtt gtc aaa gac aga acc att tca ttt tta Lys Met Leu Val Asn Leu Val Val Lys Asp Arg Thr Ile Ser Phe Leu 85 90 95			288
gga tgc gta gta caa ttc ttt ttc ttc tgt acc ttt gtg gtc act gaa Gly Cys Val Val Gln Phe Phe Phe Phe Cys Thr Phe Val Val Thr Glu 100 105 110			336
tcc ttt tta tta gct gtg atg gcc tat gac cgc ttc gtg gcc att tgc Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys 115 120 125			384
aac cct ctg ctc tac aca gtt aac atg tcc cag aaa ctc tgc gtg ctg Asn Pro Leu Leu Tyr Thr Val Asn Met Ser Gln Lys Leu Cys Val Leu 130 135 140			432
ctg gtt gtg gga tcc tat gcc tgg gga gtc tca tgt tcc ttg gaa ctg Leu Val Val Gly Ser Tyr Ala Trp Gly Val Ser Cys Ser Leu Glu Leu 145 150 155 160			480
aag tgc tct gct tta aag tta tgt ttt cat ggt ttc aac aca atc aat Thr Cys Ser Ala Leu Lys Leu Cys Phe His Gly Phe Asn Thr Ile Asn 165 170 175			528
cac ttc ttc tgt gag ttc tcc tca cta ctc tcc ctt tct tgc tct gat His Phe Phe Cys Glu Phe Phe Ser Ser Leu Leu Ser Leu Ser Cys Ser Asp 180 185 190			576
act tac atc aac cag tgg ctg cta ttc ttt ctt gcc acc ttt aat gaa Thr Tyr Ile Asn Gln Trp Leu Leu Phe Phe Leu Ala Thr Phe Asn Glu 195 200 205			624
atc agc aca cta ctc atc gtt ctc aca tct tat gcg ttc att gtt gta Ile Ser Thr Leu Leu Ile Val Leu Thr Ser Tyr Ala Phe Ile Val Val 210 215 220			672
acc atc ctc aag atg cgt tca gtc agt ggg cgc cgc aaa gcc ttc tcc Thr Ile Leu Lys Met Arg Ser Val Ser Gly Arg Lys Ala Phe Ser 225 230 235 240			720
acc tgt gcc tcc cac ctg act gcc atc acc atc ttc cat ggc acc atc Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile 245 250 255			768
ctc ttc ctt tac tgt gtg ccc aac tcc aaa aac tcc agg cac aca gtc Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg His Thr Val 260 265 270			816
aaa gtg gcc tct gtg ttt tac acc gtg gtg atc ccc atg ttg aat ccc Lys Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro 275 280 285			864

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ctg atc tac agt ctg aga aat aaa gat gtc aag gat aca gtc acc gag      912
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Thr Val Thr Glu
290                295                300

ata ctg gac acc aaa gtc ttc tct tac tga      942
Ile Leu Asp Thr Lys Val Phe Ser Tyr
305                310

<210> 250
<211> 313
<212> PRT
<213> Homo Sapiens

<400> 250
Met Leu Leu Thr Asp Arg Asn Thr Ser Gly Thr Thr Phe Thr Leu Leu
1      5      10      15

Gly Phe Ser Asp Tyr Pro Glu Leu Gln Val Pro Leu Phe Leu Val Phe
20      25      30

Leu Ala Ile Tyr Asn Val Thr Val Leu Gly Asn Ile Gly Leu Ile Val
35      40      45

Ile Ile Lys Ile Asn Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu
50      55      60

Ser Gln Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Ala Pro
65      70      75      80

Lys Met Leu Val Asn Leu Val Val Lys Asp Arg Thr Ile Ser Phe Leu
85      90      95

Gly Cys Val Val Gln Phe Phe Phe Phe Cys Thr Phe Val Val Thr Glu
100     105     110

Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
115     120     125

Asn Pro Leu Leu Tyr Thr Val Asn Met Ser Gln Lys Leu Cys Val Leu
130     135     140

Leu Val Val Gly Ser Tyr Ala Trp Gly Val Ser Cys Ser Leu Glu Leu
145     150     155     160

Thr Cys Ser Ala Leu Lys Leu Cys Phe His Gly Phe Asn Thr Ile Asn
165     170     175

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His Phe Phe Cys Glu Phe Ser Ser Leu Leu Ser Leu Ser Cys Ser Asp
180 185 190

Thr Tyr Ile Asn Gln Trp Leu Leu Phe Phe Leu Ala Thr Phe Asn Glu
195 200 205

Ile Ser Thr Leu Leu Ile Val Leu Thr Ser Tyr Ala Phe Ile Val Val
210 215 220

Thr Ile Leu Lys Met Arg Ser Val Ser Gly Arg Arg Lys Ala Phe Ser
225 230 235 240

Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile
245 250 255

Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg His Thr Val
260 265 270

Lys Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
275 280 285

Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Thr Val Thr Glu
290 295 300

Ile Leu Asp Thr Lys Val Phe Ser Tyr
305 310

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ttg gcc ttc tca gat tac ctg gaa ctg caa att ccc ctc ttc ttt gta	96
Leu Gly Phe Ser Asp Tyr Leu Glu Leu Gln Ile Pro Leu Phe Phe Val	
20 25 30	
ttt ctg gca gtc tac ggc ttc agt gtg gta ggg aat ctt ggg atg ata	144
Phe Leu Ala Val Tyr Gly Phe Ser Val Val Gly Asn Leu Gly Met Ile	
35 40 45	
gtg atc atc aaa att aac cca aaa ttg cat acc ccc atg tat ttt ttc	192

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Val	Ile	Ile	Lys	Ile	Asn	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe		
50					55					60							
ctc	aac	cac	ctc	toc	ttt	gtg	gat	ttc	tgc	tat	toc	toc	atc	att	gct	240	
Leu	Asn	His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Ile	Ile	Ala		
65				70					75						80		
ccc	atg	atg	ctg	gtg	aac	ctg	gtt	gta	gaa	gat	aga	acc	att	tca	ttc	288	
Pro	Met	Met	Leu	Val	Asn	Leu	Val	Val	Glu	Asp	Arg	Thr	Ile	Ser	Phe		
				85					90					95			
tca	gga	tgt	ttg	gtg	caa	ttc	ttt	ttc	ttt	tgc	acc	ttt	gta	gtg	act	326	
Ser	Gly	Cys	Leu	Val	Gln	Phe	Phe	Phe	Phe	Cys	Thr	Phe	Val	Val	Thr		
			100					105					110				
gaa	tta	att	cta	ttt	gcg	gtg	atg	gcc	tat	gac	cac	ttt	gtg	goc	att	384	
Glu	Leu	Ile	Leu	Phe	Ala	Val	Met	Ala	Tyr	Asp	His	Phe	Val	Ala	Ile		
			115					120					125				
tgc	aat	cct	ctg	ctc	tac	aca	gtt	gcc	atc	toc	cag	aaa	ctc	tgt	gcc	432	
Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Ile	Ser	Gln	Lys	Leu	Cys	Ala		
			130					135					140				
atg	ctg	gtg	gtt	gta	ttg	tat	gca	tgg	gga	gtc	gca	tgt	toc	ctg	aca	480	
Met	Leu	Val	Val	Val	Tyr	Ala	Trp	Gly	Val	Ala	Cys	Ser	Leu	Thr			
					150				155					160			
ctc	gcg	tgc	tct	gct	tta	aag	tta	tct	ttt	cat	ggt	ttc	aac	aca	atc	528	
Leu	Ala	Cys	Ser	Ala	Leu	Lys	Leu	Ser	Phe	His	Gly	Phe	Asn	Thr	Ile		
				165					170					175			
aat	cat	ttc	ttc	tgt	gag	tta	ccc	ccc	ctg	ata	tca	ctc	tct	tac	cct	576	
Asn	His	Phe	Phe	Cys	Glu	Leu	Ser	Ser	Leu	Ile	Ser	Leu	Ser	Tyr	Pro		
				180					185					190			
gac	tct	tat	ctc	agc	cag	ttg	ctt	ctt	ttc	act	gtt	gcc	act	ttt	aat	624	
Asp	Ser	Tyr	Leu	Ser	Gln	Leu	Leu	Leu	Phe	Thr	Val	Ala	Thr	Phe	Asn		
			195					200					205				
gag	ata	agc	aca	cta	ctc	atc	att	ctg	aca	toc	tat	gca	ttc	atc	att	672	
Glu	Ile	Ser	Thr	Leu	Leu	Ile	Ile	Leu	Thr	Ser	Tyr	Ala	Phe	Ile	Ile		
			210					215					220				
gtc	acc	acc	ttg	aag	atg	cct	tca	gcc	agt	ggg	cac	cgc	aaa	gtc	ttc	720	
Val	Thr	Thr	Leu	Lys	Met	Pro	Ser	Ala	Ser	Gly	His	Arg	Lys	Val	Phe		
				225				230					235		240		
toc	acc	tgt	gcc	toc	cac	ctg	act	gcc	atc	acc	atc	ttc	cat	ggc	acc	768	
Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Ile	Thr	Ile	Phe	His	Gly	Thr		
				245					250					255			
atc	ctc	ttc	ctc	tac	tgt	gta	ccc	aac	toc	aaa	aac	toc	agg	cac	aca	816	
Ile	Leu	Phe	Leu	Tyr	Cys	Val	Pro	Asn	Ser	Lys	Asn	Ser	Arg	His	Thr		
				260					265					270			
gtc	aaa	gtg	gcc	tct	gtg	ttt	tac	acc	gtg	gtg	atc	ccc	ttg	ttg	aat	864	
Val	Lys	Val	Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Leu	Leu	Asn		
				275					280					285			
ccc	ctg	atc	tac	agt	ctg	aga	aat	aaa	gat	gtt	aag	gat	gca	atc	cga	912	
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Ile	Arg		

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290          295          300
aaa ata atc aat aca aaa tat ttt cat att aaa cat agg cat tgg tat    960
lys ile ile asn thr lys tyr phe his ile lys his arg his trp tyr
305          310          315          320

cca ttt aat ttt gtt att gaa caa taa    987
pro phe asn phe val ile glu gln
325

<210> 252
<211> 328
<212> PRT
<213> Homo Sapiens

<400> 252
Met Phe Leu Thr Glu Arg Asn Thr Thr Ser Glu Ala Thr Phe Thr Leu
1          5          10          15

Leu Gly Phe Ser Asp Tyr Leu Glu Leu Gln Ile Pro Leu Phe Phe Val
20          25          30

Phe Leu Ala Val Tyr Gly Phe Ser Val Val Gly Asn Leu Gly Met Ile
35          40          45

Val ile ile lys ile asn pro lys leu his thr pro met tyr phe phe
50          55          60

Leu Asn His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Ala
65          70          75          80

Pro Met Met Leu Val Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe
85          90          95

Ser Gly Cys Leu Val Gln Phe Phe Phe Phe Cys Thr Phe Val Val Thr
100         105         110

Glu Leu Ile Leu Phe Ala Val Met Ala Tyr Asp His Phe Val Ala Ile
115         120         125

Cys Asn Pro Leu Leu Tyr Thr Val Ala Ile Ser Gln Lys Leu Cys Ala
130         135         140

Met Leu Val Val Val Leu Tyr Ala Trp Gly Val Ala Cys Ser Leu Thr
145         150         155         160

Leu Ala Cys Ser Ala Leu Lys Leu Ser Phe His Gly Phe Asn Thr Ile
165         170         175

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Asn His Phe Phe Cys Glu Leu Ser Ser Leu Ile Ser Leu Ser Tyr Pro
 180 185 190
 Asp Ser Tyr Leu Ser Gln Leu Leu Leu Phe Thr Val Ala Thr Phe Asn
 195 200 205
 Glu Ile Ser Thr Leu Leu Ile Ile Leu Thr Ser Tyr Ala Phe Ile Ile
 210 215 220
 Val Thr Thr Leu Lys Met Pro Ser Ala Ser Gly His Arg Lys Val Phe
 225 230 235 240
 Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
 245 250 255
 Ile Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg His Thr
 260 265 270
 Val Lys Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Leu Leu Asn
 275 280 285
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Ile Arg
 290 295 300
 Lys Ile Ile Asn Thr Lys Tyr Phe His Ile Lys His Arg His Trp Tyr
 305 310 315 320
 Pro Phe Asn Phe Val Ile Glu Gln
 325

<210> 253
 <211> 945
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(942)
 <223>

<400> 353
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 Met Met Ala Ser Glu Arg Asn Gln Ser Ser Thr Pro Thr Phe Ile Leu
 1 5 10 15
 ttg ggt ttt tca gaa tac cca gaa atc cag gtt cca ctc ttt atg gtt 96
 Leu Gly Phe Ser Glu Tyr Pro Glu Ile Gln Val Pro Leu Phe Leu Val
 20 25 30

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ttc ttg ttc gtc tac aca gtc act gta gtg ggg aac ttg ggc atg ata	144
Phe Leu Phe Val Tyr Thr Val Thr Val Val Gly Asn Leu Gly Met Ile	
35 40 45	
ata atc atc aga ctc aat tca aaa ctc cat aca atc atg tgc ttt ttc	192
Ile Ile Ile Arg Leu Asn Ser Lys Leu His Thr Ile Met Cys Phe Phe	
50 55 60	
ctt agt cac ttg tcc ttg aca gac ttc tgt ttt tcc act gta gtt aca	240
Leu Ser His Leu Ser Leu Thr Asp Phe Cys Phe Ser Thr Val Val Thr	
65 70 75 80	
cct aaa ctg ttg gag aac ttg gtt gtg gaa tac aga acc atc tct ttc	288
Pro Lys Leu Leu Glu Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe	
85 90 95	
tct ggt tgc atc atg caa ttt tgt ttt gct tgc att ttt gga gtg aca	336
Ser Gly Cys Ile Met Glu Phe Cys Phe Ala Cys Ile Phe Gly Val Thr	
100 105 110	
gaa act ttc atg tta gca gcg atg gct tat gac cgt ttt gtg gca gtt	384
Glu Thr Phe Met Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Val	
115 120 125	
tgt aaa ccc ttg ctg tat acc act att atg tct cag aag ctc tgt gct	432
Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met Ser Glu Lys Leu Cys Ala	
130 135 140	
ctt ctg gtg gct ggg tcc tat aca tgg ggg ata gtg tgc tcc ctg ata	480
Leu Leu Val Ala Gly Ser Tyr Thr Trp Gly Ile Val Cys Ser Leu Ile	
145 150 155 160	
ctc aca tat ttt ctt ctt gac tta tgg ttt tgt gaa tct acc ttc ata	528
Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe Cys Glu Ser Thr Phe Ile	
165 170 175	
aat aat ttt atc tgt gac cac tct gta att gtt tct gcc tcc tac tca	576
Asn Asn Phe Ile Cys Asp His Ser Val Ile Val Ser Ala Ser Tyr Ser	
180 185 190	
gac ccc tat atc agc cag agg cta tgc ttt att att gcc ata ttc aat	624
Asp Pro Tyr Ile Ser Glu Arg Leu Cys Phe Ile Ile Ala Ile Phe Asn	
195 200 205	
gag gtg ago agc cta att atc att ctg aca tca tat atg att att ttc	672
Glu Val Ser Ser Leu Ile Ile Ile Leu Thr Ser Tyr Met Leu Ile Phe	
210 215 220	
act acc att atg aag atg cga tct gca agt ggg cgc cag aaa act ttc	720
Thr Thr Ile Met Lys Met Arg Ser Ala Ser Gly Arg Glu Lys Thr Phe	
225 230 235 240	
tcc acc tgt gcc tcc cac ctg aca gcc atc act atc ttc cat gga act	768
Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr	
245 250 255	
atc ctt ttc ctt tac tgt gtt cct aat cct aaa act tct agc ctc ata	816
Ile Leu Phe Leu Tyr Cys Val Pro Asn Pro Lys Thr Ser Ser Leu Ile	
260 265 270	
gtt aca gtg gct tct gtg ttt tac aca gtg gcg att cca atg ctg aac	864

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Val Thr Val Ala Ser Val Phe Tyr Thr Val Ala Ile Pro Met Leu Asn
275                280                285

cca ttg atc tac agc ctt agg aac aac gat atc aat aac atg ttt gaa    912
Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Asn Met Phe Glu
290                295                300

aaa tta gtt gtc acc aaa ttg att tac cac tga    945
Lys Leu Val Val Thr Lys Leu Ile Tyr His
305                310

<210> 254
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 254

Met Met Ala Ser Glu Arg Asn Gln Ser Ser Thr Pro Thr Phe Ile Leu
1          5          10          15

Leu Gly Phe Ser Glu Tyr Pro Glu Ile Gln Val Pro Leu Phe Leu Val
20          25          30

Phe Leu Phe Val Tyr Thr Val Thr Val Val Gly Asn Leu Gly Met Ile
35          40          45

Ile Ile Ile Arg Leu Asn Ser Lys Leu His Thr Ile Met Cys Phe Phe
50          55          60

Leu Ser His Leu Ser Leu Thr Asp Phe Cys Phe Ser Thr Val Val Thr
65          70          75          80

Pro Lys Leu Leu Glu Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe
85          90          95

Ser Gly Cys Ile Met Gln Phe Cys Phe Ala Cys Ile Phe Gly Val Thr
100         105         110

Glu Thr Phe Met Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Val
115         120         125

Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met Ser Gln Lys Leu Cys Ala
130         135         140

Leu Leu Val Ala Gly Ser Tyr Thr Trp Gly Ile Val Cys Ser Leu Ile
145         150         155         160

Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe Cys Glu Ser Thr Phe Ile
165         170         175

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Asn Asn Phe Ile Cys Asp His Ser Val Ile Val Ser Ala Ser Tyr Ser
180 185 190

Asp Pro Tyr Ile Ser Gln Arg Leu Cys Phe Ile Ile Ala Ile Phe Asn
195 200 205

Glu Val Ser Ser Leu Ile Ile Ile Leu Thr Ser Tyr Met Leu Ile Phe
210 215 220

Thr Thr Ile Met Lys Met Arg Ser Ala Ser Gly Arg Gln Lys Thr Phe
225 230 235 240

Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
245 250 255

Ile Leu Phe Leu Tyr Cys Val Pro Asn Pro Lys Thr Ser Ser Leu Ile
260 265 270

Val Thr Val Ala Ser Val Phe Tyr Thr Val Ala Ile Pro Met Leu Asn
275 280 285

Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Asn Met Phe Glu
290 295 300

Lys Leu Val Val Thr Lys Leu Ile Tyr His
305 310

<210> 255
<211> 945
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(942)
<223>

<400> 255
atg atg atg gtt tta agg aat ctg agc atg gag ccc acc ttt gcc ctt 48
Met Met Met Val Leu Arg Asn Leu Ser Met Glu Pro Thr Phe Ala Leu
1 5 10 15
tta ggt ttc aca gat tac cca aag ctt cag att cct ctc ttc ctt gtg 96
Leu Gly Phe Thr Asp Tyr Pro Lys Leu Gln Ile Pro Leu Phe Leu Val
20 25 30
ttt ctg ctc atg tat gtt atc aca gtg gta gga aac ctt ggg atg atc 144
Phe Leu Leu Met Tyr Val Ile Thr Val Val Gly Asn Leu Gly Met Ile
35 40 45

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ata ata atc aag att aac ccc aaa ttt oac act cct atg tac ttt ttc Ile Ile Ile Lys Ile Asn Pro Lys Phe His Thr Pro Met Tyr Phe Phe 50 55 60	192
ctt agt cac ctc tct ttt gtt gat ttt tgt tac tct tcc att gtc act Leu Ser His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Val Thr 65 70 75 80	240
ccc aag ctg ctt gag aac ttg gta atg gca gat aaa agc atc ttc tac Pro Lys Leu Leu Glu Asn Leu Val Met Ala Asp Lys Ser Ile Phe Tyr 85 90 95	288
ttt agc tgc atg atg cag tac ttc ctg tcc tgc act gct gtg gtg aca Phe Ser Cys Met Met Gln Tyr Phe Leu Ser Cys Thr Ala Val Val Thr 100 105 110	336
gag tct ttc ttg ctg gca gtg atg gcc tat gac cgc ttt gtg gcc atc Glu Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile 115 120 125	384
tgc aat cct ctg ctt tat aca gtg gcc atg tca cag agg ctc tgt gcc Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Gln Arg Leu Cys Ala 130 135 140	432
ctg ctg gtg gct ggg tca tat ctc tgg ggc atg ttt ggc ccc ttg gta Leu Leu Val Ala Gly Ser Tyr Leu Trp Gly Met Phe Gly Pro Leu Val 145 150 155 160	480
ctc ctt tgt tat gct ctc cgg tta aac ttc tct gga cct aat gta ato Leu Leu Cys Tyr Ala Leu Arg Leu Asn Phe Ser Gly Pro Asn Val Ile 165 170 175	528
aac cac ttc ttt tgt gag tat act gct ctc atc tct gtg tct ggc tct Asn His Phe Phe Cys Glu Tyr Thr Ala Leu Ile Ser Val Ser Gly Ser 180 185 190	576
gat ata ctc atc ccc cac ctg ctg ctt ttc agc ttc gcc acc ttc aat Asp Ile Leu Ile Pro His Leu Leu Leu Phe Ser Phe Ala Thr Phe Asn 195 200 205	624
gag atg tgt aca cta ctg atc atc ctc act tcc tat gtt ttc att ttt Glu Met Cys Thr Leu Leu Ile Ile Leu Thr Ser Tyr Val Phe Ile Phe 210 215 220	672
gtg act gta cta aaa atc cgt tct gtt agt ggg cgc cac aaa gcc ttc Val Thr Val Leu Lys Ile Arg Ser Val Ser Gly Arg His Lys Ala Phe 225 230 235 240	720
tcc acc tgg gcc tcc cac ctg act tct atc acc atc ttc cat ggg acc Ser Thr Trp Ala Ser His Leu Thr Ser Ile Thr Ile Phe His Gly Thr 245 250 255	768
atc ctt ttc ctt tac tgt gta ccc aac tcc aaa aac tct cgg caa aca Ile Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg Gln Thr 260 265 270	816
gtc aaa gtg gcc tct gta ttt tac aca gtt gtc aac ccc atg ctg aac Val Lys Val Ala Ser Val Phe Tyr Thr Val Val Asn Pro Met Leu Asn 275 280 285	864

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cct ctg atc tac agc cta agg aat aaa gac gta aag gat gct ttc tgg 912
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Phe Trp
 290 295 300

aag tta ata cat aca caa gtt cca ttt cac tga 945
 Lys Leu Ile His Thr Gln Val Pro Phe His
 305 310

<219> 256
 <211> 314
 <212> PKT
 <213> Homo Sapiens

<400> 256

Met Met Met Val Leu Arg Asn Leu Ser Met Glu Pro Thr Phe Ala Leu
 1 5 10 15

Leu Gly Phe Thr Asp Tyr Pro Lys Leu Gln Ile Pro Leu Phe Leu Val
 20 25 30

Phe Leu Leu Met Tyr Val Ile Thr Val Val Gly Asn Leu Gly Met Ile
 35 40 45

Ile Ile Ile Lys Ile Asn Pro Lys Phe His Thr Pro Met Tyr Phe Phe
 50 55 60

Leu Ser His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Val Thr
 65 70 75 80

Pro Lys Leu Leu Glu Asn Leu Val Met Ala Asp Lys Ser Ile Phe Tyr
 85 90 95

Phe Ser Cys Met Met Gln Tyr Phe Leu Ser Cys Thr Ala Val Val Thr
 100 105 110

Glu Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile
 115 120 125

Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Gln Arg Leu Cys Ala
 130 135 140

Leu Leu Val Ala Gly Ser Tyr Leu Trp Gly Met Phe Gly Pro Leu Val
 145 150 155 160

Leu Leu Cys Tyr Ala Leu Arg Leu Asn Phe Ser Gly Pro Asn Val Ile
 165 170 175

Asn His Phe Phe Cys Glu Tyr Thr Ala Leu Ile Ser Val Ser Gly Ser

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180          185          190
Asp Ile Leu Ile Pro His Leu Leu Leu Phe Ser Phe Ala Thr Phe Asn
195          200          205

Glu Met Cys Thr Leu Leu Ile Ile Leu Thr Ser Tyr Val Phe Ile Phe
210          215          220

Val Thr Val Leu Lys Ile Arg Ser Val Ser Gly Arg His Lys Ala Phe
225          230          235          240

Ser Thr Trp Ala Ser His Leu Thr Ser Ile Thr Ile Phe His Gly Thr
245          250          255

Ile Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg Gln Thr
260          265          270

Val Lys Val Ala Ser Val Phe Tyr Thr Val Val Asn Pro Met Leu Asn
275          280          285

Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Phe Trp
290          295          300

Lys Leu Ile His Thr Gln Val Pro Phe His
305          310

<210> 257
<211> 975
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(972)
<223>

<400> 257
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Met Glu Ser Pro Asn Gln Thr Thr Ile Gln Glu Phe Ile Phe Ser Ala
1          5          10          15

ttc cct tat tcc tgg gtt aag tct gtt gtc tgc ttt gtt cca ctg ctc      96
Phe Pro Tyr Ser Trp Val Lys Ser Val Val Cys Phe Val Pro Leu Leu
20          25          30

ttc atc tat gct ttc att gtt gtt gga aac ctg gtc atc atc aca gtg      144
Phe Ile Tyr Ala Phe Ile Val Val Gly Asn Leu Val Ile Ile Thr Val
35          40          45

gtc cag ttg aat act cac ctc cac act ccc atg tat act ttt atc agt      192
Val Gln Leu Asn Thr His Leu His Thr Pro Met Tyr Thr Phe Ile Ser

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50	55	60	
gct ctt tct ttt ctg gag att tgg tat acc aca gcc aca atc cca sag			240
Ala Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys			
65	70	75	80
atg ctg tct agc ctg ctt agt gag agg agc att tcc ttc aat ggt tgt			288
Met Leu Ser Ser Leu Leu Ser Glu Arg Ser Ile Ser Phe Asn Gly Cys			
	85	90	95
ctc ctg cag atg tat ttc ttc cat tcc acc ggc atc tgt gag gtg tgt			336
Leu Leu Gln Met Tyr Phe Phe His Ser Thr Gly Ile Cys Glu Val Cys			
	100	105	110
ctc ttg aca gtt atg gcc ttt gac cac tac ctg gcc ata tgc agc cct			384
Leu Leu Thr Val Met Ala Phe Asp His Tyr Leu Ala Ile Cys Ser Pro			
	115	120	125
ctt cat tat ccc tct atc atg acc ccc aag cta tgt acc caa ctg act			432
Leu His Tyr Pro Ser Ile Met Thr Pro Lys Leu Cys Thr Gln Leu Thr			
	130	135	140
tta agt tgc tgt gtt tgt ggc ttt atc aca ccc gtt cct gag att gcc			480
Leu Ser Cys Cys Val Cys Gly Phe Ile Thr Pro Val Pro Glu Ile Ala			
	145	150	155
tgg atc tct aca ctg cca ttt tgt ggt tgg aat cac ctt gaa cat atc			528
Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn His Leu Glu His Ile			
	165	170	175
ttc tgt gac ttc ctc cca gtg ctg cgt ctg gcc tgc aca gac aca cga			576
Phe Cys Asp Phe Leu Pro Val Leu Arg Leu Ala Cys Thr Asp Thr Arg			
	180	185	190
gcc atc gtc atg att cag gta gtg gat gtc att cat gca gtg gag att			624
Ala Ile Val Met Ile Gln Val Val Asp Val Ile His Ala Val Glu Ile			
	195	200	205
att aca gct gtg atg ctc atc ttc atg tcc tac gat ggt att gtg gct			672
Ile Thr Ala Val Met Leu Ile Phe Met Ser Tyr Asp Gly Ile Val Ala			
	210	215	220
gta att cta cgt att cat tca gct gga ggc cgc cgc aca gca ttt tcc			720
Val Ile Leu Arg Ile His Ser Ala Gly Gly Arg Arg Thr Ala Phe Ser			
	225	230	235
acg tgt gtc tct cac ttc att gtc ttt tgg ctc ttc ttt ggc agt gtg			768
Thr Cys Val Ser His Phe Ile Val Phe Ser Leu Phe Phe Gly Ser Val			
	245	250	255
act ctc atg tac cta cgc ttc tct gcc acc tac tct ttg ttc tgg gat			816
Thr Leu Met Tyr Leu Arg Phe Ser Ala Thr Tyr Ser Leu Phe Trp Asp			
	260	265	270
ata gcc att gct ctg gcc ttt gca gtt ttg tct ccc ttc ttc aac ccc			864
Ile Ala Ile Ala Leu Ala Phe Ala Val Leu Ser Pro Phe Phe Asn Pro			
	275	280	285
att atc tat agc ctg agg aat aaa gaa ata aaa gaa gct ata aaa aag			912
Ile Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Glu Ala Ile Lys Lys			
	290	295	300

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cac ata ggt cca gct aag ata ttt ttt tcc gta aga cca ggg acc tca 960
 His Ile Gly Gln Ala Lys Ile Phe Phe Ser Val Arg Pro Gly Thr Ser
 305 310 315 320

agt aag ata ttt tag 975
 Ser Lys Ile Phe

<210> 258
 <211> 324
 <212> PRT
 <213> Homo Sapiens
 <400> 258

Met Glu Ser Pro Asn Gln Thr Thr Ile Gln Glu Phe Ile Phe Ser Ala
 1 5 10 15

Phe Pro Tyr Ser Trp Val Lys Ser Val Val Cys Phe Val Pro Leu Leu
 20 25 30

Phe Ile Tyr Ala Phe Ile Val Val Gly Asn Leu Val Ile Ile Thr Val
 35 40 45

Val Gln Leu Asn Thr His Leu His Thr Pro Met Tyr Thr Phe Ile Ser
 50 55 60

Ala Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys
 65 70 75 80

Met Leu Ser Ser Leu Leu Ser Glu Arg Ser Ile Ser Phe Asn Gly Cys
 85 90 95

Leu Leu Gln Met Tyr Phe Phe His Ser Thr Gly Ile Cys Glu Val Cys
 100 105 110

Leu Leu Thr Val Met Ala Phe Asp His Tyr Leu Ala Ile Cys Ser Pro
 115 120 125

Leu His Tyr Pro Ser Ile Met Thr Pro Lys Leu Cys Thr Gln Leu Thr
 130 135 140

Leu Ser Cys Cys Val Cys Gly Phe Ile Thr Pro Val Pro Glu Ile Ala
 145 150 155 160

Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn His Leu Glu His Ile
 165 170 175

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PCT/BE01/00162

Phe Cys Asp Phe Leu Pro Val Leu Arg Leu Ala Cys Thr Asp Thr Arg
 180 185 190
 Ala Ile Val Met Ile Gln Val Val Asp Val Ile His Ala Val Glu Ile
 195 200 205
 Ile Thr Ala Val Met Leu Ile Phe Met Ser Tyr Asp Gly Ile Val Ala
 210 215 220
 Val Ile Leu Arg Ile His Ser Ala Gly Gly Arg Arg Thr Ala Phe Ser
 225 230 235 240
 Thr Cys Val Ser His Phe Ile Val Phe Ser Leu Phe Phe Gly Ser Val
 245 250 255
 Thr Leu Met Tyr Leu Arg Phe Ser Ala Thr Tyr Ser Leu Phe Trp Asp
 260 265 270
 Ile Ala Ile Ala Leu Ala Phe Ala Val Leu Ser Pro Phe Phe Asn Pro
 275 280 285
 Ile Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Glu Ala Ile Lys Lys
 290 295 300
 His Ile Gly Gln Ala Lys Ile Phe Phe Ser Val Arg Pro Gly Thr Ser
 305 310 315 320
 Ser Lys Ile Phe

<210> 259
 <211> 948
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1) .. (948)
 <223>

<400> 259
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 Met Glu Ser Arg Asn Gln Ser Thr Val Thr Glu Phe Ile Phe Thr Gly
 1 5 10 15
 ttc cct cag ctt cag gat ggt agt ctc ctg tac ttc ttt cct tta ctt 96
 Phe Pro Gln Leu Gln Asp Gly Ser Leu Leu Tyr Phe Phe Pro Leu Leu
 20 25 30
 ttc atc tat act ttt att atc att gat aac tta tta atc ttc tct gct 144

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Phe Ile Tyr Thr Phe Ile Ile Ile Asp Asn Leu Leu Ile Phe Ser Ala
 35 40 45
 gta agg ctg gac acc cat ctc cac aac ccc atg tat aat ttt atc agt 192
 Val Arg Leu Asp Thr His Leu His Asn Pro Met Tyr Asn Phe Ile Ser
 50 55 60
 ata ttt tcc ttt ctg gag atc tgg tac acc aca gcc acc att ccc aag 240
 Ile Phe Ser Phe Leu Glu Ile Trp Tyr Thr Ala Thr Ile Pro Lys
 65 70 75 80
 atg ctc tcc aac ctc atc agt gaa aag aag gcc atc tca atg act ggc 288
 Met Leu Ser Asn Leu Ile Ser Glu Lys Lys Ala Ile Ser Met Thr Gly
 85 90 95
 tgc atc ttg cag atg tat ttc ttc cac tca ctt gaa aac tca gag ggg 336
 Cys Ile Leu Gln Met Tyr Phe Phe His Ser Leu Glu Asn Ser Glu Gly
 100 105 110
 atc ttg ctg acc acc atg gcc att gac aga tac gtt gcc atc tgc aac 384
 Ile Leu Leu Thr Thr Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 cct ctt cgc tat caa atg atc atg acc ccc cgg ctc tgt gct cac ctc 432
 Pro Leu Arg Tyr Gln Met Ile Met Thr Pro Arg Leu Cys Ala His Leu
 130 135 140
 tct gca ggt tcc tgc ctc ttc ggt ttc ctt atc ctg ctt ccc gag att 480
 Ser Ala Gly Ser Cys Leu Phe Gly Phe Leu Ile Leu Leu Pro Glu Ile
 145 150 155 160
 gtg atg att tcc aca ctg cct ttc tgt ggg ccc aac caa atc cat cag 528
 Val Met Ile Ser Thr Leu Pro Phe Cys Gly Pro Asn Gln Ile His Gln
 165 170 175
 atc ttc tgt gac ttg gtc cct gtg cta agc ctg gcc tgt aca gac acg 576
 Ile Phe Cys Asp Leu Val Pro Val Leu Ser Leu Ala Cys Thr Asp Thr
 180 185 190
 tcc atg att ctg att gag gat gtg att cat gct gtg acc atc atc att 624
 Ser Met Ile Leu Ile Glu Asp Val Ile His Ala Val Thr Ile Ile Ile
 195 200 205
 acc ttc cta atc att gcc ctg tcc tat gta aga att gtc act gtg ata 672
 Thr Phe Leu Ile Ile Ala Leu Ser Tyr Val Arg Ile Val Thr Val Ile
 210 215 220
 ttg agg att ccc tct tct gaa ggg agy caa aag gct ttt tct acc tgt 720
 Leu Arg Ile Pro Ser Ser Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys
 225 230 235 240
 gca ggc cac ctc atg gtc ttc ctg ata ttc ttt ggc agt gta tca ctc 768
 Ala Gly His Leu Met Val Phe Leu Ile Phe Phe Gly Ser Val Ser Leu
 245 250 255
 atg tac ttg cgt ttc agc aac act tat cca cca gtt ttg gac aca gcc 816
 Met Tyr Leu Arg Phe Ser Asn Thr Tyr Pro Pro Val Leu Asp Thr Ala
 260 265 270
 att gca ctg atg ttt act gta ctt gct cca ttc ttc aat ccc atc att 864
 Ile Ala Leu Met Phe Thr Val Leu Ala Pro Phe Phe Asn Pro Ile Ile

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275                280                285
tat agc ctg aga aac aag gac atg aac aat gca att aaa aaa ctg ttc      912
Tyr Ser Leu Arg Asn Lys Asp Met Asn Asn Ala Ile Lys Lys Leu Phe
290                295                300

tgt ctt caa aaa gtg ttg aac aag cct gga ggt taa      948
Cys Leu Gln Lys Val Leu Asn Lys Pro Gly Gly
305                310                315

<210> 260
<211> 315
<212> PRT
<213> Homo Sapiens

<400> 260
Met Glu Ser Arg Asn Gln Ser Thr Val Thr Glu Phe Ile Phe Thr Gly
1                5                10                15

Phe Pro Gln Leu Gln Asp Gly Ser Leu Leu Tyr Phe Phe Pro Leu Leu
20                25                30

Phe Ile Tyr Thr Phe Ile Ile Ile Asp Asn Leu Leu Ile Phe Ser Ala
35                40                45

Val Arg Leu Asp Thr His Leu His Asn Pro Met Tyr Asn Phe Ile Ser
50                55                60

Ile Phe Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys
65                70                75                80

Met Leu Ser Asn Leu Ile Ser Glu Lys Lys Ala Ile Ser Met Thr Gly
85                90                95

Cys Ile Leu Gln Met Tyr Phe Phe His Ser Leu Glu Asn Ser Glu Gly
100               105               110

Ile Leu Leu Thr Thr Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn
115               120               125

Pro Leu Arg Tyr Gln Met Ile Met Thr Pro Arg Leu Cys Ala His Leu
130               135               140

Ser Ala Gly Ser Cys Leu Phe Gly Phe Leu Ile Leu Leu Pro Glu Ile
145               150               155               160

Val Met Ile Ser Thr Leu Pro Phe Cys Gly Pro Asn Gln Ile His Gln
165               170               175

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Ile Phe Cys Asp Leu Val Pro Val Leu Ser Leu Ala Cys Thr Asp Thr
180 185 190

Ser Met Ile Leu Ile Glu Asp Val Ile His Ala Val Thr Ile Ile Ile
195 200 205

Thr Phe Leu Ile Ile Ala Leu Ser Tyr Val Arg Ile Val Thr Val Ile
210 215 220

Leu Arg Ile Pro Ser Ser Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys
225 230 235 240

Ala Gly His Leu Met Val Phe Leu Ile Phe Phe Gly Ser Val Ser Leu
245 250 255

Met Tyr Leu Arg Phe Ser Asn Thr Tyr Pro Pro Val Leu Asp Thr Ala
260 265 270

Ile Ala Leu Met Phe Thr Val Leu Ala Pro Phe Phe Asn Pro Ile Ile
275 280 285

Tyr Ser Leu Arg Asn Lys Asp Met Asn Asn Ala Ile Lys Lys Leu Phe
290 295 300

Cys Leu Gln Lys Val Leu Asn Lys Pro Gly Gly
305 310 315

<210> 261
<211> 939
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(936)
<223>

<400> 261
atg gat gga gat aac cag agt gag aac tca cag ttc ctt ctc ctg ggg 48
Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly
1 5 10 15
atc tca gag agt cct gag cag cag cgg atc ctg ttt tgg atg ttc ctg 96
Ile Ser Glu Ser Pro Glu Gln Gln Arg Ile Leu Phe Trp Met Phe Leu
20 25 30
tcc atg tac ctg gtc acg gtg ctg gga aat gtg ctc atc atc ctg gcc 144
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala
35 40 45

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atc agc tct gat tcc cac ctg cac acc ccc atg tac ttc ttc ctg gcc Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala 50 55 60	192
aac ctc tcc ttc act gac ctc ttc ttt gtc acc aac aca atc ccc aag Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys 65 70 75 80	240
atg ctg gtg aac ttc cag tcc cag aac aaa gcc atc tcc tat gca ggg Met Leu Val Asn Phe Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly 85 90 95	288
tgt ctg aca cag ctc tac ttc ctg gtc tcc ttg gtg acc ctg gac aac Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn 100 105 110	336
ctc atc ctg gcc gtg atg gcg tat gat cgc tat gtg gcc acc tgc tgc Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Thr Cys Cys 115 120 125	384
ccc ctc cac tat gtc aca gcc atg agc cct ggg ctc tgt gtc ttg ctc Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu 130 135 140	432
ctc tcc ttg tgt tgg ggg ctg tct gtt ctc tat ggc ctc ctc ctc acc Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr 145 150 155 160	480
ttc ctc ctg acc agg gtg acc ttc tgt ggg cct cga gag atc cac tac Phe Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr 165 170 175	528
ctc ttc tgt gac atg tac atc ctg ctg tgg ctg gca tgt tcc aac acc Leu Phe Cys Asp Met Tyr Ile Leu Leu Trp Leu Ala Cys Ser Asn Thr 180 185 190	576
cac atc att cac aca gcg ttg att gcc act ggc tgc ttc atc ttc ctc His Ile Ile His Thr Ala Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu 195 200 205	624
acc ccc tta ggg ttc atg acc aca tcc tat gta cgt att gtc aga acc Thr Pro Leu Gly Phe Met Thr Thr Ser Tyr Val Arg Ile Val Arg Thr 210 215 220	672
atc ctt caa atg ccc tgg gcc tct aag aaa tac aaa acc ttc tct acc Ile Leu Gln Met Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr 225 230 235 240	720
tgt gcc tcc cat ttg ggt gtg gtc tcc ctc ttt tat ggg acg ctt gct Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala 245 250 255	768
atg gtg tac ctg cag ccc ctc cat acc tac tcc atg aag gac tca gta Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val 260 265 270	816
gcc aca gtg atg tat gct gtg ctg aca cct atg atg aac cct ttc atc Ala Thr Val Met Tyr Ala Val Leu Thr Pro Met Met Asn Pro Phe Ile 275 280 285	864
tac agg ctg agg aac aaa gac atg cat ggg gct cgg gga aga gtc cta	912

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Tyr Arg Leu Arg Asn Lys Asp Met His Gly Ala Pro Gly Arg Val Leu
 290 295 300
 tgg aga ccc ttt cag agg cct aaa tga 939
 Trp Arg Pro Phe Gln Arg Pro Lys
 305 310
 <210> 262
 <211> 312
 <212> PRT
 <213> Homo Sapiens
 <400> 262
 Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly
 1 5 10 15
 Ile Ser Glu Ser Pro Glu Gln Glu Arg Ile Leu Phe Trp Met Phe Leu
 20 25 30
 Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala
 35 40 45
 Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 50 55 60
 Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys
 65 70 75 80
 Met Leu Val Asn Phe Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly
 85 90 95
 Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn
 100 105 110
 Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Thr Cys Cys
 115 120 125
 Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu
 130 135 140
 Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr
 145 150 155 160
 Phe Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr
 165 170 175
 Leu Phe Cys Asp Met Tyr Ile Leu Leu Trp Leu Ala Cys Ser Asn Thr
 180 185 190

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His Ile Ile His Thr Ala Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu
195 200 205

Thr Pro Leu Gly Phe Met Thr Thr Ser Tyr Val Arg Ile Val Arg Thr
210 215 220

Ile Leu Gln Met Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr
225 230 235 240

Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala
245 250 255

Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val
260 265 270

Ala Thr Val Met Tyr Ala Val Leu Thr Pro Met Met Asn Pro Phe Ile
275 280 285

Tyr Arg Leu Arg Asn Lys Asp Met His Gly Ala Pro Gly Arg Val Leu
290 295 300

Trp Arg Pro Phe Gln Arg Pro Lys
305 310

<210> 263
<211> 894
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(891)
<223>

<400> 263
atg cag caa aat aac agt gtg oct gaa ttc ata ctg tta gga tta aca 48
Met Gln Gln Asn Asp Ser Val Pro Glu Phe Ile Leu Leu Gly Leu Thr
1 5 10 15

cag gat ccc ttg agg cag aaa ata gtg ttt gta atc ttc tta att ttc 96
Gln Asp Pro Leu Arg Gln Lys Ile Val Phe Val Ile Phe Leu Ile Phe
20 25 30

tat atg gga act gtg gtg ggg aat atg ctc att att gtg acc atc aag 144
Tyr Met Gly Thr Val Val Gly Asn Met Leu Ile Ile Val Thr Ile Lys
35 40 45

tcc agc cgg aca cta gga agc ccc atg tac ttc ttt ota ttt tat ttg 192
Ser Ser Arg Thr Leu Gly Ser Pro Met Tyr Phe Phe Leu Phe Tyr Leu
50 55 60

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tcc ttt gca gat tct tgc ttt tca aat tcc aca gcc cct aga tta att      240
Ser Phe Ala Asp Ser Cys Phe Ser Thr Ser Thr Ala Pro Arg Leu Ile
65              70              75              80

gtg gat got ctc tct gaa aag aaa att ata acc tac aat gag tgc atg      288
Val Asp Ala Leu Ser Glu Lys Lys Ile Ile Thr Tyr Asn Glu Cys Met
85              90              95

aca caa gtc ttt gca cta cat tta ttt ggc tgc atg gag atc ttt gtc      336
Thr Gln Val Phe Ala Leu His Leu Phe Gly Cys Met Glu Ile Phe Val
100             105             110

ctc att ctc atg got gtt gat cgc tat gtg gcc atc tgt aag ccc ttg      384
Leu Ile Leu Met Ala Val Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
115             120             125

cgt tac cca acc atc atg agc cag cag gtc tgc atc atc ctg att gtt      432
Arg Tyr Pro Thr Ile Met Ser Gln Gln Val Cys Ile Ile Leu Ile Val
130             135             140

ctt gcc tgg ata ggg tct tta ata cac tct aca gct cag att atc ctg      480
Leu Ala Trp Ile Gly Ser Leu Ile His Ser Thr Ala Gln Ile Ile Leu
145             150             155             160

gcc tta aga ttg cct ttc tgt gga ccc tat ttg att gat cat tat tgc      528
Ala Leu Arg Leu Pro Phe Cys Gly Pro Tyr Leu Ile Asp His Tyr Cys
165             170             175

tgt gat ttg cag ccc ttg ttg aaa ctt gcc tgc atg gac aat tac atg      576
Cys Asp Leu Gln Pro Leu Leu Lys Leu Ala Cys Met Asp Thr Tyr Met
180             185             190

atc aac ctg ctg ttg gtg tct aac agt ggg gca att tgc tca agt agt      624
Ile Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ser Ser Ser
195             200             205

ttc atg att ttg ata att tca tat att gtc atc ttg cat tca ctg aga      672
Phe Met Ile Leu Ile Ile Ser Tyr Ile Val Ile Leu His Ser Leu Arg
210             215             220

aac cac agt gcc aaa ggg aag aaa aag gct ctc tcc gct tgc acg tct      720
Asn His Ser Ala Lys Gly Lys Lys Lys Ala Leu Ser Ala Cys Thr Ser
225             230             235             240

cac ata att gta gtc atc tta ttc ttt ggc cca tgt ata ttc ata tat      768
His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Ile Tyr
245             250             255

aca cgc ccc ccg acc aat ttc ccc atg gac aag atg gtg gca gta ttt      816
Thr Arg Pro Pro Thr Thr Phe Pro Met Asp Lys Met Val Ala Val Phe
260             265             270

tat act att gga aca ccc ttt ctc aat cca ctc atc tac aca tct gag      864
Tyr Thr Ile Gly Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr Ser Glu
275             280             285

gaa tgc aga agt gaa aaa tgc cat gag aaa      894
Glu Cys Arg Ser Glu Lys Cys His Glu
290             295

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<210> 264
 <211> 297
 <212> PRT
 <213> Homo Sapiens

<400> 264

Met Gln Gln Asn Asn Ser Val Pro Glu Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15

Gln Asp Pro Leu Arg Gln Lys Ile Val Phe Val Ile Phe Leu Ile Phe
 20 25 30

Tyr Met Gly Thr Val Val Gly Asn Met Leu Ile Ile Val Thr Ile Lys
 35 40 45

Ser Ser Arg Thr Leu Gly Ser Pro Met Tyr Phe Phe Leu Phe Tyr Leu
 50 55 60

Ser Phe Ala Asp Ser Cys Phe Ser Thr Ser Thr Ala Pro Arg Leu Ile
 65 70 75 80

Val Asp Ala Leu Ser Glu Lys Lys Ile Ile Thr Tyr Asn Glu Cys Met
 85 90 95

Thr Gln Val Phe Ala Leu His Leu Phe Gly Cys Met Glu Ile Phe Val
 100 105 110

Leu Ile Leu Met Ala Val Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125

Arg Tyr Pro Thr Ile Met Ser Gln Gln Val Cys Ile Ile Leu Ile Val
 130 135 140

Leu Ala Trp Ile Gly Ser Leu Ile His Ser Thr Ala Gln Ile Ile Leu
 145 150 155 160

Ala Leu Arg Leu Pro Phe Cys Gly Pro Tyr Leu Ile Asp His Tyr Cys
 165 170 175

Cys Asp Leu Gln Pro Leu Leu Lys Leu Ala Cys Met Asp Thr Tyr Met
 180 185 190

Ile Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ser Ser Ser
 195 200 205

Phe Met Ile Leu Ile Ile Ser Tyr Ile Val Ile Leu His Ser Leu Arg

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210 215 220
 Asn His Ser Ala Lys Gly Lys Lys Lys Ala Leu Ser Ala Cys Thr Ser
 225 230 235 240
 His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Ile Tyr
 245 250 255
 Thr Arg Pro Pro Thr Thr Phe Pro Met Asp Lys Met Val Ala Val Phe
 260 265 270
 Tyr Thr Ile Gly Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr Ser Glu
 275 280 285
 Glu Cys Arg Ser Glu Lys Cys His Glu
 290 295
 <210> 265
 <211> 915
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1) .. (915)
 <223>
 <400> 265
 atg gaa aga gca aac cat tca gtg gta tcc gaa ttt att ttg ttg gga 48
 Met Glu Arg Ala Asn His Ser Val Val Ser Glu Phe Ile Leu Leu Gly
 1 5 10 15
 ctt tcc aaa tct caa aat ctt cag att tta ttc ttc ttg gga ttc tct 96
 Leu Ser Lys Ser Gln Asn Leu Gln Ile Leu Phe Phe Leu Gly Phe Ser
 20 25 30
 gtg gtc ttc gtg ggg att gtg tta gga aac ctg ctc atc ttg gtg act 144
 Val Val Phe Val Gly Ile Val Leu Gly Asn Leu Leu Ile Leu Val Thr
 35 40 45
 gtg acc ttt gat tcc ctc ctt cac aca cca atg tat ttt ctg ctt agc 192
 Val Thr Phe Asp Ser Leu Leu His Thr Pro Met Tyr Phe Leu Leu Ser
 50 55 60
 aac ctc tcc tgc att gat atg atc ctg gct tct ttt gct acc cct aag 240
 Asn Leu Ser Cys Ile Asp Met Ile Leu Ala Ser Phe Ala Thr Pro Lys
 65 70 75 80
 atg att gta gat ttc ctc oga gaa cgt aag acc atc tca tgg tgg gga 288
 Met Ile Val Asp Phe Leu Arg Glu Arg Lys Thr Ile Ser Trp Trp Gly
 85 90 95
 tgt tat tcc cag atg ttc ttt atg cac ctc ctg ggt ggg agt gag atg 336
 Cys Tyr Ser Gln Met Phe Phe Met His Leu Leu Gly Gly Ser Glu Met

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100      105      110
atg ttg ctt gta gcc atg gca ata gac agg tat gtt gcc ata tgc aaa 384
Met Leu Leu Val Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Lys
115      130      125
ccc ctc cat tac atg acc atc atg agc coa cgg gtg ctc act ggg cta 432
Pro Leu His Tyr Met Thr Ile Met Ser Pro Arg Val Leu Thr Gly Leu
130      135      140
ctg tta tcc tcc tat gca gtt gga ttt gtg cac tca tct agt caa atg 480
Leu Leu Ser Ser Tyr Ala Val Gly Phe Val His Ser Ser Ser Gln Met
145      150      155      160
gct ttc atg ttg act ttg ccc ttc tgt ggt ccc aat gtt ata gac agc 528
Ala Phe Met Leu Thr Leu Pro Phe Cys Gly Pro Asn Val Ile Asp Ser
165      170      175
ttt ttc tgt gac ctt ccc ctt gtg att aaa ctt gcc tgc aag gac acc 576
Phe Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Lys Asp Thr
180      185      190
tac atc cta cag ctc ctg gtc att gct gac agt ggg ctc ctg tca ctg 624
Tyr Ile Leu Gln Leu Leu Val Ile Ala Asp Ser Gly Leu Leu Ser Leu
195      200      205
gac tgc ttc ctc ctc ttg ctt gtc tcc tat gga gtc ata ata ttc tca 672
Val Cys Phe Leu Leu Leu Leu Val Ser Tyr Gly Val Ile Ile Phe Ser
210      215      220
gtt agg tac cgt gct gct agt cga tcc tct aag gct ttc tcc act ctc 720
Val Arg Tyr Arg Ala Ala Ser Arg Ser Ser Lys Ala Phe Ser Thr Leu
225      230      235      240
tca gct cac atc aca gtt gtg act ctg ttc ttt gct ccc tgt gtc ttt 768
Ser Ala His Ile Thr Val Val Thr Leu Phe Phe Ala Pro Cys Val Phe
245      250      255
atc tac gtc tgg ccc ttc agc aga tac tgg gta gat aaa att ctt tct 816
Ile Tyr Val Tyr Pro Phe Ser Arg Tyr Ser Val Asp Lys Ile Leu Ser
260      265      270
gtg ttt tac aca att ttc aca cct ctc tta aat cct att att tat aca 864
Val Phe Tyr Thr Ile Phe Thr Pro Leu Leu Asn Pro Ile Ile Tyr Thr
275      280      285
tta aga aat caa gag gta aaa gca gcc att aaa aaa aga ctc tgc ata 912
Leu Arg Asn Gln Glu Val Lys Ala Ala Ile Lys Lys Arg Leu Cys Ile
290      295      300
taa 915

<210> 266
<211> 304
<212> PRT
<213> Homo Sapiens

<400> 266
Met Glu Arg Ala Asn His Ser Val Val Ser Glu Phe Ile Leu Leu Gly

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1 5 10 15
 Leu Ser Lys Ser Gln Asn Leu Gln Ile Leu Phe Phe Leu Gly Phe Ser
 20 25 30
 Val Val Phe Val Gly Ile Val Leu Gly Asn Leu Leu Ile Leu Val Thr
 35 40 45
 Val Thr Phe Asp Ser Leu Leu His Thr Pro Met Tyr Phe Leu Leu Ser
 50 55 60
 Asn Leu Ser Cys Ile Asp Met Ile Leu Ala Ser Phe Ala Thr Pro Lys
 65 70 75 80
 Met Ile Val Asp Phe Leu Arg Glu Arg Lys Thr Ile Ser Trp Trp Gly
 85 90 95
 Cys Tyr Ser Gln Met Phe Phe Met His Leu Leu Gly Gly Ser Glu Met
 100 105 110
 Met Leu Leu Val Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125
 Pro Leu His Tyr Met Thr Ile Met Ser Pro Arg Val Leu Thr Gly Leu
 130 135 140
 Leu Leu Ser Ser Tyr Ala Val Gly Phe Val His Ser Ser Ser Gln Met
 145 150 155 160
 Ala Phe Met Leu Thr Leu Pro Phe Cys Gly Pro Asn Val Ile Asp Ser
 165 170 175
 Phe Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Lys Asp Thr
 180 185 190
 Tyr Ile Leu Gln Leu Leu Val Ile Ala Asp Ser Gly Leu Leu Ser Leu
 195 200 205
 Val Cys Phe Leu Leu Leu Leu Val Ser Tyr Gly Val Ile Ile Phe Ser
 210 215 220
 Val Arg Tyr Arg Ala Ala Ser Arg Ser Ser Lys Ala Phe Ser Thr Leu
 225 230 235 240
 Ser Ala His Ile Thr Val Val Thr Leu Phe Phe Ala Pro Cys Val Phe
 245 250 255

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PCT/BE01/00162

Ile Tyr Val Trp Pro Phe Ser Arg Tyr Ser Val Asp Lys Ile Leu Ser
260 265 270

Val Phe Tyr Thr Ile Phe Thr Pro Leu Leu Asn Pro Ile Ile Tyr Thr
275 280 285

Leu Arg Asn Gln Glu Val Lys Ala Ala Ile Lys Lys Arg Leu Cys Ile
290 295 300

<210> 267
<211> 943
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(939)
<223>

<400> 267
atg gca aat ctg agc cag ccc tcc gaa ttt gtc ctc ttg ggc ttc tcc 48
Met Ala Asn Leu Ser Gln Pro Ser Glu Phe Val Leu Leu Gly Phe Ser
1 5 10 15
tcc ttt ggt gag ctg cag gcc ctt ctg tat gcc ccc ttc ctc atg ctt 96
Ser Phe Gly Glu Leu Gln Ala Leu Leu Tyr Gly Pro Phe Leu Met Leu
20 25 30
tat ctt ctc gcc ttc atg gga aac acc atc atc ata gtt atg gtc ata 144
Tyr Leu Leu Ala Phe Met Gly Asn Thr Ile Ile Ile Met Val Ile
35 40 45
gct gac acc cac cta cat aca ccc atg tac ttc ttc ctg ggc aat ttt 192
Ala Asp Thr His Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Phe
50 55 60
tcc ctg ctg gag atc ttg gta acc atg act gca gtc ccc agg atg ctc 240
Ser Leu Leu Glu Ile Leu Val Thr Met Thr Ala Val Pro Arg Met Leu
65 70 75 80
tca gac ctg ttg gtc ccc cac aaa gtc att acc ttc act ggc tgc atg 288
Ser Asp Leu Leu Val Pro His Lys Val Ile Thr Phe Thr Gly Cys Met
85 90 95
gtc cag ttc tac ttc cac ttt tcc ctg ggg tcc acc tcc ttc ctc atc 336
Val Gln Phe Tyr Phe His Phe Ser Leu Gly Ser Thr Ser Phe Leu Ile
100 105 110
ctg aca gac atg gcc ctt gat cgc ttt gtg gcc atc tgc cac cca ctg 384
Leu Thr Asp Met Ala Leu Asp Arg Phe Val Ala Ile Cys His Pro Leu
115 120 125
cgc tat gcc act ctg atg agc cgg gct atg tgt gtc cag ctg gct ggg 432
Arg Tyr Gly Thr Leu Met Ser Arg Ala Met Cys Val Gln Leu Ala Gly
130 135 140

WO 02/24726

PCT/BE01/00162

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gct gcc tgg gca gct cct ttc cta gcc atg gta ccc act gtc ctc tcc      480
Ala Ala Trp Ala Ala Pro Phe Leu Ala Met Val Pro Thr Val Leu Ser
145          150          155          160

cga gct cat ctt gat tac tgc cat ggc gac gtc atc aac cac ttc ttc      528
Arg Ala His Leu Asp Tyr Cys His Gly Asp Val Ile Asn His Phe Phe
165          170          175

tgt gac aat gaa cct ctc ctg cag ttg tca tgc tct gac act cgc ctg      576
Cys Asp Asn Glu Pro Leu Leu Gln Leu Ser Cys Ser Asp Thr Arg Leu
180          185          190

ttg gaa ttc tgg gac ttt ctg atg gcc ttg acc ttt gtc ctc agc tcc      624
Leu Glu Phe Trp Asp Phe Leu Met Ala Leu Thr Phe Val Leu Ser Ser
195          200          205

ttc ctg gtc acc ctc atc tcc tat ggc tac ata gtc acc act gtc ctg      672
Phe Leu Val Thr Leu Ile Ser Tyr Gly Tyr Ile Val Thr Thr Val Leu
210          215          220

cgg atc ccc tct gcc agc agc tgc cag aag gct ttc tcc act tgc ggg      720
Arg Ile Pro Ser Ala Ser Ser Cys Gln Lys Ala Phe Ser Thr Cys Gly
225          230          235          240

tct cac ctc aca ctg gtc ttc atc ggc tac agt agt acc atc ttt ctg      768
Ser His Leu Thr Leu Val Phe Ile Gly Tyr Ser Ser Thr Ile Phe Leu
245          250          255

tat gtc agg cct ggc aaa gct cac tct gtc caa gtc agg aag gtc gtc      816
Tyr Val Arg Pro Gly Lys Ala His Ser Val Glu Val Arg Lys Val Val
260          265          270

gcc ttg gtc act tca gtt ctc acc ccc ttt ctc aat ccc ttt atc ctt      864
Ala Leu Val Thr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe Ile Leu
275          280          285

acc ttc tgc aat cag aca gtt aaa aca gtc cta cag ggg cag atg cag      912
Thr Phe Cys Asn Gln Thr Val Lys Thr Val Leu Gln Gly Gln Met Gln
290          295          300

agg ctg aaa ggc ott tgc aag gca caa tga      942
Arg Leu Lys Gly Leu Cys Lys Ala Gln
305          310

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<210> 268
 <211> 313
 <212> PRT
 <213> Homo Sapiens

<400> 268

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Met Ala Asn Leu Ser Gln Pro Ser Glu Phe Val Leu Leu Gly Phe Ser
1          5          10          15

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Ser Phe Gly Glu Leu Gln Ala Leu Leu Tyr Gly Pro Phe Leu Met Leu
20          25          30

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Tyr Leu Leu Ala Phe Met Gly Asn Thr Ile Ile Ile Val Met Val Ile
 35 40 45
 Ala Asp Thr His Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Phe
 50 55 60
 Ser Leu Leu Glu Ile Leu Val Thr Met Thr Ala Val Pro Arg Met Leu
 65 70 75 80
 Ser Asp Leu Leu Val Pro His Lys Val Ile Thr Phe Thr Gly Cys Met
 85 90 95
 Val Gln Phe Tyr Phe His Phe Ser Leu Gly Ser Thr Ser Phe Leu Ile
 100 105 110
 Leu Thr Asp Met Ala Leu Asp Arg Phe Val Ala Ile Cys His Pro Leu
 115 120 125
 Arg Tyr Gly Thr Leu Met Ser Arg Ala Met Cys Val Gln Leu Ala Gly
 130 135 140
 Ala Ala Trp Ala Ala Pro Phe Leu Ala Met Val Pro Thr Val Leu Ser
 145 150 155 160
 Arg Ala His Leu Asp Tyr Cys His Gly Asp Val Ile Asn His Phe Phe
 165 170 175
 Cys Asp Asn Glu Pro Leu Leu Gln Leu Ser Cys Ser Asp Thr Arg Leu
 180 185 190
 Leu Glu Phe Trp Asp Phe Leu Met Ala Leu Thr Phe Val Leu Ser Ser
 195 200 205
 Phe Leu Val Thr Leu Ile Ser Tyr Gly Tyr Ile Val Thr Thr Val Leu
 210 215 220
 Arg Ile Pro Ser Ala Ser Ser Cys Gln Lys Ala Phe Ser Thr Cys Gly
 225 230 235 240
 Ser His Leu Thr Leu Val Phe Ile Gly Tyr Ser Ser Thr Ile Phe Leu
 245 250 255
 Tyr Val Arg Pro Gly Lys Ala His Ser Val Gln Val Arg Lys Val Val
 260 265 270
 Ala Leu Val Thr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe Ile Leu

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                275                280                285

Thr Phe Cys Asn Gln Thr Val Lys Thr Val Leu Gln Gly Gln Met Gln
290                295                300

Arg Leu Lys Gly Leu Cys Lys Ala Gln
305                310

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<213> Homo Sapiens

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1          5          10          15

ggg tcc caa gga cta cac cac att ctt ttt gct ata ttc ttt ttc ttc      96
Gly Ser Gln Gly Leu His His Ile Leu Phe Ala Ile Phe Phe Phe Phe
20         25         30

tat tta gtg aca tta atg gga aac acg gtc atc att gtg att gtc tgt      144
Tyr Leu Val Thr Leu Met Gly Asn Thr Val Ile Ile Val Ile Val Cys
35         40         45

gtg gat aaa cgt ctg cag tcc ccc atg tat ttc ttc ctc agc cac ctc      192
Val Asp Lys Arg Leu Gln Ser Pro Met Tyr Phe Phe Leu Ser His Leu
50         55         60

tct acc ctg gag atc ctg gtc aca acc ata att gtc ccc atg atg ctt      240
Ser Thr Leu Glu Ile Leu Val Thr Thr Ile Ile Val Pro Met Met Leu
65         70         75         80

tgg gga ttg ctc ttc ctg gga tgc aga cag tat ctt tct cta cat gta      288
Trp Gly Leu Leu Phe Leu Gly Cys Arg Gln Tyr Leu Ser Leu His Val
85         90         95

tcg ctc aac ttt tcc tgt ggg acc atg gag ttt gca tta ctt gga gtg      336
Ser Leu Asn Phe Ser Cys Gly Thr Met Glu Phe Ala Leu Leu Gly Val
100        105        110

atg gct gtg gac cgt tat gtg gct gtg tgt aac cct ttg agg tac aac      384
Met Ala Val Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Arg Tyr Asn
115        120        125

atc att atg aac agc agt acc tgt att tgg gtg gta ata gtg tca tgg      432
Ile Ile Met Asn Ser Ser Thr Cys Ile Trp Val Val Ile Val Ser Trp
130        135        140

gtg ttt gga ttt ctt tct gaa atc tgg ccc atc tat gcc aca ttt cag      480
Val Phe Gly Phe Leu Ser Glu Ile Trp Pro Ile Tyr Ala Thr Phe Gln

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145          150          155          160
ttt acc ttc cgc aaa tca aat tca tta gac cat ttt tac tgt gac cga      528
Phe Thr Phe Arg Lys Ser Asn Ser Leu Asp His Phe Tyr Cys Asp Arg
          165          170          175

ggg caa ttg ctc aaa ctg tcc tgc gat aac act ctt ctc aca gag ttt      576
Gly Gln Leu Leu Lys Leu Ser Cys Asp Asn Thr Leu Leu Thr Glu Phe
          180          185          190

atc ctt ttc tta atg gct gtt ttt att ctc att ggt tct ttg atc cct      624
Ile Leu Phe Leu Met Ala Val Phe Ile Leu Ile Gly Ser Leu Ile Pro
          195          200          205

acg att gtc tcc tcc acc tac att atc tcc acc atc ctc aag atc cgg      672
Thr Ile Val Ser Tyr Thr Tyr Ile Ile Ser Thr Ile Leu Lys Ile Pro
          210          215          220

tca gcc tct ggc cgg agg aaa gcc ttc tcc act ttt gcc tcc cac ttc      720
Ser Ala Ser Gly Arg Arg Lys Ala Phe Ser Thr Phe Ala Ser His Phe
          225          230          235          240

acc tgt gtt gtg att ggc tat ggc agc tgc ttg ttt ctc tac gtg aaa      768
Thr Cys Val Val Ile Gly Tyr Gly Ser Cys Leu Phe Leu Tyr Val Lys
          245          250          255

ccc aag caa acc cag gga gtt gag tac aat aag ata gtt tcc ctg ttg      816
Pro Lys Gln Thr Gln Gly Val Glu Tyr Asn Lys Ile Val Ser Leu Leu
          260          265          270

gtt tct gtg tta acc ccc ttc ctg aat cct ttc atc ttt act ctt egg      864
Val Ser Val Leu Thr Pro Phe Leu Asn Pro Phe Ile Phe Thr Leu Arg
          275          280          285

aat gac aaa gtc aaa gag gcc ctc cga gat ggg atg aaa cgc tgc tgt      912
Asn Asp Lys Val Lys Glu Ala Leu Arg Asp Gly Met Lys Arg Cys Cys
          290          295          300

caa ctc ctg aaa gat tag      930
Gln Leu Leu Lys Asp
305

<210> 270
<211> 309
<212> PRT
<213> Homo Sapiens

<400> 270
Met Asp Asn His Ser Ser Ala Thr Glu Phe His Leu Leu Gly Phe Pro
1          5          10          15

Gly Ser Gln Gly Leu His His Ile Leu Phe Ala Ile Phe Phe Phe Phe
20          25          30

Tyr Leu Val Thr Leu Met Gly Asn Thr Val Ile Ile Val Ile Val Cys
35          40          45

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Val Asp Lys Arg Leu Gln Ser Pro Met Tyr Phe Phe Leu Ser His Leu
 50 55 60
 Ser Thr Leu Glu Ile Leu Val Thr Thr Ile Ile Val Pro Met Met Leu
 65 70 75 80
 Trp Gly Leu Leu Phe Leu Gly Cys Arg Gln Tyr Leu Ser Leu His Val
 85 90 95
 Ser Leu Asn Phe Ser Cys Gly Thr Met Glu Phe Ala Leu Leu Gly Val
 100 105 110
 Met Ala Val Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Arg Tyr Asn
 115 120 125
 Ile Ile Met Asn Ser Ser Thr Cys Ile Trp Val Val Ile Val Ser Trp
 130 135 140
 Val Phe Gly Phe Leu Ser Glu Ile Trp Pro Ile Tyr Ala Thr Phe Gln
 145 150 155 160
 Phe Thr Phe Arg Lys Ser Asn Ser Leu Asp His Phe Tyr Cys Asp Arg
 165 170 175
 Gly Gln Leu Leu Lys Leu Ser Cys Asp Asn Thr Leu Leu Thr Glu Phe
 180 185 190
 Ile Leu Phe Leu Met Ala Val Phe Ile Leu Ile Gly Ser Leu Ile Pro
 195 200 205
 Thr Ile Val Ser Tyr Thr Tyr Ile Ile Ser Thr Ile Leu Lys Ile Pro
 210 215 220
 Ser Ala Ser Gly Arg Arg Lys Ala Phe Ser Thr Phe Ala Ser His Phe
 225 230 235 240
 Thr Cys Val Val Ile Gly Tyr Gly Ser Cys Leu Phe Leu Tyr Val Lys
 245 250 255
 Pro Lys Gln Thr Gln Gly Val Glu Tyr Asn Lys Ile Val Ser Leu Leu
 260 265 270
 Val Ser Val Leu Thr Pro Phe Leu Asn Pro Phe Ile Phe Thr Leu Arg
 275 280 285

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Asn Asp Lys Val Lys Glu Ala Leu Arg Asp Gly Met Lys Arg Cys Cys
 290 295 300

Gln Leu Leu Lys Asp
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 ttc tct gcc ttc ccc cac ctc cag ctg atg ctc ttc ctg ctg ttc ctg 96
 Phe Ser Ala Phe Pro His Leu Gln Leu Met Leu Phe Leu Leu Phe Leu
 20 25 30
 ctg atg tac ctg ttc acg ctg ctg ggc aac ctg ctc atc atg gcc act 144
 Leu Met Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala Thr
 35 40 45
 gtc tgg agc gag cgc agc ctc cac atg ccc atg tac ctc ttc ctg tgt 192
 Val Trp Ser Glu Arg Ser Leu His Met Pro Met Tyr Leu Phe Leu Cys
 50 55 60
 gcc ctc tcc atc acc gag atc ctc tac acc gtc gcc atc atc cgc cgc 240
 Ala Leu Ser Ile Thr Glu Ile Leu Tyr Thr Val Ala Ile Ile Pro Arg
 65 70 75 80
 atg ctg gcc gac ctg ctg tcc acc cag cgc tcc atc gcc ttc ctg gcc 288
 Met Leu Ala Asp Leu Leu Ser Thr Gln Arg Ser Ile Ala Phe Leu Ala
 85 90 95
 tgt gcc agt cag atg ttc ttc tcc ttc agc ttc gcc ttc acc cac tcc 336
 Cys Ala Ser Gln Met Phe Phe Ser Phe Ser Phe Gly Phe Thr His Ser
 100 105 110
 ttc ctg ctc act gtc atg ggc tac gac cgc tac gtc gcc atc tgc cac 384
 Phe Leu Leu Thr Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 ccc ctg cgt tac aac gtc ctc atg agc ctg cgg gcc tgc acc tgc cgg 432
 Pro Leu Arg Tyr Asn Val Leu Met Ser Leu Arg Gly Cys Thr Cys Arg
 130 135 140
 gtc gcc tgc tcc tgg gct ggt gcc ttg gtc atg ggg atg gtc gtc acc 480
 Val Gly Cys Ser Trp Ala Gly Gly Leu Val Met Gly Met Val Val Thr
 145 150 155 160
 tcc gcc att ttc cac ctc gcc ttc tgt gga cac aag gag atc cac cat 528

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Ser Ala Ile Phe His Leu Ala Phe Cys Gly His Lys Glu Ile His His
      165      170      175

ttc ttc tgc cac gtg cca cct ctg ttg aag ttg gcc tgt gga gat gat      576
Phe Phe Cys His Val Pro Pro Leu Leu Lys Leu Ala Cys Gly Asp Asp
      180      185      190

gtg ctg gtg gtg gcc aaa ggc gtg ggc ttg gtg tgt atc acg gcc ctg      624
Val Leu Val Val Ala Lys Gly Val Gly Leu Val Cys Ile Thr Ala Leu
      195      200      205

ctg ggc tgt ttt ctc ctc atc ctc ctc tcc tat gcc ttc atc gtg gcc      672
Leu Gly Cys Phe Leu Leu Ile Leu Leu Ser Tyr Ala Phe Ile Val Ala
      210      215      220

gcc atc ttg aag atc cct tct gct gaa ggt cgg aac aag gcc ttc tcc      720
Ala Ile Leu Lys Ile Pro Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser
      225      230      235      240

acc tgt gcc tct cac ctc act gtg gtg gtc gtg csc tat gcc ttt gcc      768
Thr Cys Ala Ser His Leu Thr Val Val Val Val His Tyr Gly Phe Ala
      245      250      255

tcc gtc att tac ctg aag ccc aaa ggt ccc cag tct cgg gaa gga gac      816
Ser Val Ile Tyr Leu Lys Pro Lys Gly Pro Gln Ser Pro Glu Gly Asp
      260      265      270

acc ttg atg ggc atc acc tac acg gtc ctc aca tcc ttc ctc agc ccc      864
Thr Leu Met Gly Ile Thr Tyr Thr Val Leu Thr Pro Phe Leu Ser Pro
      275      280      285

atc atc ttc agc ctc agg aac aag gag ctg aag gtc gcc atg aag aag      912
Ile Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Val Ala Met Lys Lys
      290      295      300

act tgc ttc acc aaa ctc ttt cca cag aac tgc tga      948
Thr Cys Phe Thr Lys Leu Phe Pro Gln Asn Cys
      305      310      315

<210> 272
<211> 315
<212> PRT
<213> Homo Sapiens

<400> 272
Met Gln Gly Leu Asn His Thr Ser Val Ser Glu Phe Ile Leu Val Gly
1      5      10      15

Phe Ser Ala Phe Pro His Leu Gln Leu Met Leu Phe Leu Leu Phe Leu
20      25      30

Leu Met Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala Thr
35      40      45

Val Trp Ser Glu Arg Ser Leu His Met Pro Met Tyr Leu Phe Leu Cys
50      55      60

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Ala Leu Ser Ile Thr Glu Ile Leu Tyr Thr Val Ala Ile Ile Pro Arg
 65 70 75 80
 Met Leu Ala Asp Leu Leu Ser Thr Gln Arg Ser Ile Ala Phe Leu Ala
 85 90 95
 Cys Ala Ser Gln Met Phe Phe Ser Phe Ser Phe Gly Phe Thr His Ser
 100 105 110
 Phe Leu Leu Thr Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu Arg Tyr Asn Val Leu Met Ser Leu Arg Gly Cys Thr Cys Arg
 130 135 140
 Val Gly Cys Ser Trp Ala Gly Gly Leu Val Met Gly Met Val Val Thr
 145 150 155 160
 Ser Ala Ile Phe His Leu Ala Phe Cys Gly His Lys Glu Ile His His
 165 170 175
 Phe Phe Cys His Val Pro Pro Leu Leu Lys Leu Ala Cys Gly Asp Asp
 180 185 190
 Val Leu Val Val Ala Lys Gly Val Gly Leu Val Cys Ile Thr Ala Leu
 195 200 205
 Leu Gly Cys Phe Leu Leu Ile Leu Leu Ser Tyr Ala Phe Ile Val Ala
 210 215 220
 Ala Ile Leu Lys Ile Pro Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser
 225 230 235 240
 Thr Cys Ala Ser His Leu Thr Val Val Val Val His Tyr Gly Phe Ala
 245 250 255
 Ser Val Ile Tyr Leu Lys Pro Lys Gly Pro Gln Ser Pro Glu Gly Asp
 260 265 270
 Thr Leu Met Gly Ile Thr Tyr Thr Val Leu Thr Pro Phe Leu Ser Pro
 275 280 285
 Ile Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Val Ala Met Lys Lys
 290 295 300

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PCT/BE01/00162

Thr Cys Phe Thr Lys Leu Phe Pro Gln Asn Cys
305 310 315

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cag agc cca gag att gag aaa gtt tgt ttt gtg gtg ttt tct ttc ttc 96
Gln Ser Pro Glu Ile Glu Lys Val Cys Phe Val Val Phe Ser Phe Phe
20 25 30
tac ata atc att ctt ctg gga aat ctc ctc atc atg ctg aca gtt tgc 144
Tyr Ile Ile Ile Leu Leu Gly Asn Leu Leu Ile Met Leu Thr Val Cys
35 40 45
ctg agc aac ctg ttt aag tca ccc atg tat ttc ttt ctc agc ttc ttg 192
Leu Ser Asn Leu Phe Lys Ser Pro Met Tyr Phe Phe Leu Ser Phe Leu
50 55 60
tct ttt gtg gac att tgt taa tct tca gtc aca gct ccc aag atg att 240
Ser Phe Val Asp Ile Cys Tyr Ser Ser Val Thr Ala Pro Lys Met Ile
65 70 75 80
gtt gac ctg tta gca aag gac aaa acc atc tcc tat gtg ggg tgc atg 288
Val Asp Leu Leu Ala Lys Asp Lys Thr Ile Ser Tyr Val Gly Cys Met
85 90 95
ttg caa ctg ctt gga gta cat ttc ttt ggt tgc act gag atc ttc atc 336
Leu Gln Leu Leu Gly Val His Phe Phe Gly Cys Thr Glu Ile Phe Ile
100 105 110
ctt act gta atg gcc tat gat cgt tat gtg gct atc tgt aaa ccc cta 384
Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
115 120 125
cat tat atg acc atc atg aac cgg gag aca tgc aat aaa atg tta tta 432
His Tyr Met Thr Ile Met Asn Arg Glu Thr Cys Asn Lys Met Leu Leu
130 135 140
ggg acg tgg gta ggt ggg ttc tta cac tcc att atc caa ggg gct ctg 480
Gly Thr Trp Val Gly Gly Phe Leu His Ser Ile Ile Gln Val Ala Leu
145 150 155 160
gta gtc caa cta ccc ttt tgt gga ccc aat gag ata gat cac tac ttt 528
Val Val Gln Leu Pro Phe Cys Gly Pro Asn Glu Ile Asp His Tyr Phe
165 170 175

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PCT/BE01/00162

tgt gat gtt cac cct gtg ttg aaa ett gcc tgc aca gaa aca tac att 576
 Cys Asp Val His Pro Val Leu Lys Leu Ala Cys Thr Glu Thr Tyr Ile
 180 185 190

gtt ggt gtt gtt gtg aca gcc aac agt ggt acc att gct ctg ggg agt 624
 Val Gly Val Val Val Thr Ala Asn Ser Gly Thr Ile Ala Leu Gly Ser
 195 200 205

ttt gtt atc ttg cta atc tcc tac agc atc atc cta gtt tcc ctg aga 672
 Phe Val Ile Leu Leu Ile Ser Tyr Ser Ile Ile Leu Val Ser Leu Arg
 210 215 220

aag cag tca gca gaa ggc agg cgc aaa gcc ctg tcc acc tgt ggc tcc 720
 Lys Glu Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ser
 225 230 235 240

cac att gcc atg gtc gtt atc ttt ttc gcc ccc tgt act ttt atg tac 768
 His Ile Ala Met Val Val Ile Phe Phe Gly Pro Cys Thr Phe Met Tyr
 245 250 255

atg cgc cct gat acg acc ttt tca gag gat aag atg gtg gct gta ttt 816
 Met Arg Pro Asp Thr Thr Phe Ser Glu Asp Lys Met Val Ala Val Phe
 260 265 270

tac acc att atc act ccc atg tta aat cct ctg att tat aca ctg aga 864
 Tyr Thr Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285

aat gca gaa gta aag aat gca atg aag aaa ctg tgg ggc aga aat gtt 912
 Asn Ala Glu Val Lys Asn Ala Met Lys Lys Leu Trp Gly Arg Asn Val
 290 295 300

ttc ttg gag gct aaa ggc aaa tag 936
 Phe Leu Glu Ala Lys Gly Lys
 305 310

<210> 274
 <211> 311
 <212> PRT
 <213> Homo Sapiens
 <400> 274

Met Glu Lys Ile Asn Asn Val Thr Glu Phe Ile Phe Trp Gly Leu Ser
 1 5 10 15

Gln Ser Pro Glu Ile Glu Lys Val Cys Phe Val Val Phe Ser Phe Phe
 20 25 30

Tyr Ile Ile Ile Leu Leu Gly Asn Leu Leu Ile Met Leu Thr Val Cys
 35 40 45

Leu Ser Asn Leu Phe Lys Ser Pro Met Tyr Phe Phe Leu Ser Phe Leu
 50 55 60

Ser Phe Val Asp Ile Cys Tyr Ser Ser Val Thr Ala Pro Lys Met Ile

PC7/BF01/00162

65						70										75														80
Val	Asp	Leu	Leu	Ala	Lys	Asp	Lys	Thr	Ile	Ser	Tyr	Val	Gly	Cys	Met															
				85												90									95					
Leu	Gln	Leu	Leu	Gly	Val	His	Phe	Phe	Gly	Cys	Thr	Glu	Ile	Phe	Ile															
				100												105														
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu															
				115												120										125				
His	Tyr	Met	Thr	Ile	Met	Asn	Arg	Glu	Thr	Cys	Asn	Lys	Met	Leu	Leu															
				130												135														
Gly	Thr	Trp	Val	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln	Val	Ala	Leu															
				145												150														
Val	Val	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Phe															
				165												170											175			
Cys	Asp	Val	His	Pro	Val	Leu	Lys	Leu	Ala	Cys	Thr	Glu	Thr	Tyr	Ile															
				180												185											190			
Val	Gly	Val	Val	Val	Thr	Ala	Asn	Ser	Gly	Thr	Ile	Ala	Leu	Gly	Ser															
				195												200											205			
Phe	Val	Ile	Leu	Leu	Ile	Ser	Tyr	Ser	Ile	Ile	Leu	Val	Ser	Leu	Arg															
				210												215											220			
Lys	Gln	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser															
				225												230											235			
His	Ile	Ala	Met	Val	Val	Ile	Phe	Phe	Gly	Pro	Cys	Thr	Phe	Met	Tyr															
				245												250											255			
Met	Arg	Pro	Asp	Thr	Thr	Phe	Ser	Glu	Asp	Lys	Met	Val	Ala	Val	Phe															
				260												265											270			
Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg															
				275												280											285			
Asn	Ala	Glu	Val	Lys	Asn	Ala	Met	Lys	Lys	Leu	Trp	Gly	Arg	Asn	Val															

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 <212> DNA
 <213> Homo Sapiens

<220>
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 <222> [1]..(927)
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Met Asn His Ser Val Val Ser Glu Phe Val Phe Met Gly Leu Thr Asn
1          5          10          15

tca cgg gag att cag ctt cta ctt ttt gtt ctc tct ttg ttg ttc tac      96
Ser Arg Glu Ile Gln Leu Leu Leu Phe Val Phe Ser Leu Leu Phe Tyr
20          25          30

ttt cgg agc atg atg gga aac ctt gtc att gta ttc act gta acc atg      144
Phe Ala Ser Met Met Gly Asn Leu Val Ile Val Phe Thr Val Thr Met
35          40          45

gat gct cat ctg cac tcc ccc atg tat ttc ctc ctg gct aac ctc tca      192
Asp Ala His Leu His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser
50          55          60

atc att gat atg gca ttt tgc tca att aca gcc cct aag atg att tgt      240
Ile Ile Asp Met Ala Phe Cys Ser Ile Thr Ala Pro Lys Met Ile Cys
65          70          75

gat att ttc aag aag cac aag gcc atc tcc ttt cgg gga tgt att act      288
Asp Ile Phe Lys Lys His Lys Ala Ile Ser Phe Arg Gly Cys Ile Thr
85          90          95

cag atc ttc ttt agc cat gct ctt ggg gcc act gag atg gtg ctg ctc      336
Gln Ile Phe Phe Ser His Ala Leu Gly Gly Thr Glu Met Val Leu Leu
100         105         110

ata gcc atg gcc ttt gac aga tac atg gcc ata tgt aac cct ctc cac      384
Ile Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Lys Pro Leu His
115         120         125

tac ctg acc atc atg agc cca aga atg tgt cta tac ttt tta gcc act      432
Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Tyr Phe Leu Ala Thr
130         135         140

tcc tct atc att ggc ctt atc cac tca ttg gtc caa tta gtt ttt gtg      480
Ser Ser Ile Ile Gly Leu Ile His Ser Leu Val Gln Leu Val Phe Val
145         150         155         160

gta gat tta cct ttt tgt ggt cct aat atc ttt gac agt ttt tac tgt      528
Val Asp Leu Pro Phe Cys Gly Pro Asn Ile Phe Asp Ser Phe Tyr Cys
165         170         175

gat ctc cct cgg ctc ctc aga ctt gcc tgt acc aac acc caa gaa ctg      576
Asp Leu Pro Arg Leu Leu Arg Leu Ala Cys Thr Asn Thr Gln Glu Leu
180         185         190

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WO 02/24726

PCT/BE01/00162

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gag ttc atg gtc act gtc aat agt gga ctc att tct gtg ggc tcc ttt      624
Glu Phe Met Val Thr Val Asn Ser Gly Leu Ile Ser Val Gly Ser Phe
195                200                205

gtc ttg ctg gta att tcc tac atc ttc att ctg ttc act gtt tgg aaa      672
Val Leu Leu Val Ile Ser Tyr Ile Phe Ile Leu Phe Thr Val Trp Lys
210                215                220

cat tct tct ggt ggt cta gcc aag gcc ctc tct acc ctg tca gct cat      720
His Ser Ser Gly Gly Leu Ala Lys Ala Leu Ser Thr Leu Ser Ala His
225                230                235                240

gtc act ctg gtc atc ttg ttc ttt ggg cca ctg atg ttt ttc tac aca      768
Val Thr Val Val Ile Leu Phe Phe Gly Pro Leu Met Phe Phe Tyr Thr
245                250                255

tgg cct tct ccc aca tca cac ctg gat aaa tat ctt gct att ttt gat      816
Trp Pro Ser Pro Thr Ser His Leu Asp Lys Tyr Leu Ala Ile Phe Asp
260                265                270

gca ttt att act cct ttt ctg aat cca gtt atc tac aca ttc agg aac      864
Ala Phe Ile Thr Pro Phe Leu Asn Pro Val Ile Tyr Thr Phe Arg Asn
275                280                285

aaa gac atg aaa gtg gca atg agg aga ctg tgc agt cgt ctt gcg cat      912
Lys Asp Met Lys Val Ala Met Arg Arg Leu Cys Ser Arg Leu Ala His
290                295                300

ttt aca aag att ttg taa                                          930
Phe Thr Lys Ile Leu
305

<210> 276
<211> 309
<212> PRT
<213> Homo Sapiens

<400> 276
Met Asn His Ser Val Val Ser Glu Phe Val Phe Met Gly Leu Thr Asn
1                5                10                15

Ser Arg Glu Ile Gln Leu Leu Leu Phe Val Phe Ser Leu Leu Phe Tyr
20                25                30

Phe Ala Ser Met Met Gly Asn Leu Val Ile Val Phe Thr Val Thr Met
35                40                45

Asp Ala His Leu His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser
50                55                60

Ile Ile Asp Met Ala Phe Cys Ser Ile Thr Ala Pro Lys Met Ile Cys
65                70                75                80

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Asp Ile Phe Lys Lys His Lys Ala Ile Ser Phe Arg Gly Cys Ile Thr
 85 90 95
 Gln Ile Phe Phe Ser His Ala Leu Gly Gly Thr Glu Met Val Leu Leu
 100 105 110
 Ile Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Lys Pro Leu His
 115 120 125
 Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Tyr Phe Leu Ala Thr
 130 135 140
 Ser Ser Ile Ile Gly Leu Ile His Ser Leu Val Gln Leu Val Phe Val
 145 150 155 160
 Val Asp Leu Pro Phe Cys Gly Pro Asn Ile Phe Asp Ser Phe Tyr Cys
 165 170 175
 Asp Leu Pro Arg Leu Leu Arg Leu Ala Cys Thr Asn Thr Gln Glu Leu
 180 185 190
 Glu Phe Met Val Thr Val Asn Ser Gly Leu Ile Ser Val Gly Ser Phe
 195 200 205
 Val Leu Leu Val Ile Ser Tyr Ile Phe Ile Leu Phe Thr Val Trp Lys
 210 215 220
 His Ser Ser Gly Gly Leu Ala Lys Ala Leu Ser Thr Leu Ser Ala His
 225 230 235 240
 Val Thr Val Val Ile Leu Phe Phe Gly Pro Leu Met Phe Phe Tyr Thr
 245 250 255
 Trp Pro Ser Pro Thr Ser His Leu Asp Lys Tyr Leu Ala Ile Phe Asp
 260 265 270
 Ala Phe Ile Thr Pro Phe Leu Asn Pro Val Ile Tyr Thr Phe Arg Asn
 275 280 285
 Lys Asp Met Lys Val Ala Met Arg Arg Leu Cys Ser Arg Leu Ala His
 290 295 300
 Phe Thr Lys Ile Leu
 305
 <210> 277

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<211> 876
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(873)
 <223>

<400> 277
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 Met Val Gly Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
 1 5 10 15
 ctc acc aat tcc tgg gag atc cga ctt ctc ctc ctt gtg ttc tcc tcc 96
 Leu Thr Asn Ser Trp Glu Ile Arg Leu Leu Leu Val Phe Ser Ser
 20 25 30
 atg ttt tac atg gcc agt atg atg gga aac tct ctc att ttg ctc act 144
 Met Phe Tyr Met Ala Ser Met Met Gly Asn Ser Leu Ile Leu Leu Thr
 35 40 45
 gtg act tct gac cct cac ttg cac tcc ccc atg tat ttt ctg tta gcc 192
 Val Thr Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
 50 55 60
 aac ctc tcc ttc att gac ctg ggt gtt tcc tct gtc act tct ccc aaa 240
 Asn Leu Ser Phe Ile Asp Leu Gly Val Ser Ser Val Thr Ser Pro Lys
 65 70 75 80
 atg att tat gac ctg ttc aga aag cac gaa gtc atc tcc ttt gga ggc 288
 Met Ile Tyr Asp Leu Phe Arg Lys His Glu Val Ile Ser Phe Gly Gly
 85 90 95
 tgc atc gct caa atc ttc ttc atc cac gtc att ggc ggt gtg gag atg 336
 Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
 100 105 110
 gtg ctg ctc ata gcc atg gcc ttt gac aga tat gtg gcc ata tgt aag 384
 Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125
 ccc ctc cag tac ctg acc att atg agc cca aga atg tgc atg ttc ttc 432
 Pro Leu Gln Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Met Phe Phe
 130 135 140
 tta gtg gct gcc tgg gtg acc ggc ctt atc cac tct gta gtt caa ttg 480
 Leu Val Ala Ala Trp Val Thr Gly Leu Ile His Ser Val Val Gln Leu
 145 150 155 160
 gtt ttt gta gta aac ttg ccc ttc tgt ggt cct aat gta tog gac agc 528
 Val Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Ser Asp Ser
 165 170 175
 ttt tac tgt gac ctt cct cgg ttc atc aaa ctt gcc tgc aca gac agc 576
 Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Thr Asp Ser
 180 185 190
 tac cga ctg gag ttc atg gtt aca gcc aac agt gga ttc atc tct ctg 624
 Tyr Arg Leu Glu Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu

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195 200 205
 ggc tcc ttc ttc ata ctg atc att tcc tat gtg gtc atc att ctc act 672
 Gly Ser Phe Phe Ile Leu Ile Ile Ser Tyr Val Val Ile Ile Leu Thr
 210 215 220
 gtt ctg aaa cac tct tca gct ggt tta tcc aag gct ctg tcc acc ctt 720
 Val Leu Lys His Ser Ser Ala Gly Leu Ser Lys Ala Leu Ser Thr Leu
 225 230 235 240
 tca gct cac gtc agt gtg gta gtt ttg ttc ttt ggt cct ttg att ttt 768
 Ser Ala His Val Ser Val Val Val Leu Phe Phe Gly Pro Leu Ile Phe
 245 250 255
 gtc tat acg tgg cca tct ccc tcc aca cac ctg gat aag ttt ctg gcc 816
 Val Tyr Thr Trp Pro Ser Pro Ser Thr His Leu Asp Lys Phe Leu Ala
 260 265 270
 atc ttt gat gca gtt ctc act cct gtt tta aat cct atc atc tac aca 864
 Ile Phe Asp Ala Val Leu Thr Pro Val Leu Asn Pro Ile Ile Tyr Thr
 275 280 285
 ttc agg aat tga 876
 Phe Arg Asn
 290

<210> 278
 <211> 291
 <212> PPT
 <213> Homo Sapiens
 <400> 278

Met Val Gly Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
1 5 10 15

Leu Thr Asn Ser Trp Glu Ile Arg Leu Leu Leu Val Phe Ser Ser
20 25 30

Met Phe Tyr Met Ala Ser Met Met Gly Asn Ser Leu Ile Leu Leu Thr
35 40 45

Val Thr Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
50 55 60

Asn Leu Ser Phe Ile Asp Leu Gly Val Ser Ser Val Thr Ser Pro Lys
65 70 75 80

Met Ile Tyr Asp Leu Phe Arg Lys His Glu Val Ile Ser Phe Gly Gly
85 90 95

Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
100 105 110

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Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125

Pro Leu Gln Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Met Phe Phe
 130 135 140

Leu Val Ala Ala Trp Val Thr Gly Leu Ile His Ser Val Val Gln Leu
 145 150 155 160

Val Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Ser Asp Ser
 165 170 175

Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Thr Asp Ser
 180 185 190

Tyr Arg Leu Glu Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
 195 200 205

Gly Ser Phe Phe Ile Leu Ile Ile Ser Tyr Val Val Ile Ile Leu Thr
 210 215 220

Val Leu Lys His Ser Ser Ala Gly Leu Ser Lys Ala Leu Ser Thr Leu
 225 230 235 240

Ser Ala His Val Ser Val Val Val Leu Phe Phe Gly Pro Leu Ile Phe
 245 250 255

Val Tyr Thr Trp Pro Ser Pro Ser Thr His Leu Asp Lys Phe Leu Ala
 260 265 270

Ile Phe Asp Ala Val Leu Thr Pro Val Leu Asn Pro Ile Ile Tyr Thr
 275 280 285

Phe Arg Asn
 290

<210> 279
 <211> 951
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(948)
 <223>

<400> 279

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atg cct agt cag aac tat agc atc ata tot gaa ttt aac ctc ttt ggc Met Pro Ser Gln Asn Tyr Ser Ile Ile Ser Glu Phe Asn Leu Phe Gly 1 5 10 15	48
ttc tca gcc ttc ccc cag cac ctc ctg ccc atc ttg ttc ctg ctg tac Phe Ser Ala Phe Pro Gln His Leu Leu Pro Ile Leu Phe Leu Leu Tyr 20 25 30	96
ctc ctg atg ttc ctg ttc aca ttg ctg ggc aac ctt ctc atc atg gcc Leu Leu Met Phe Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala 35 40 45	144
aca atc tgg att gaa cac aga ctc cac aca ccc atg tac ctc ttc ttg Leu Ile Trp Ile Glu His Arg Leu His Thr Pro Met Tyr Leu Phe Leu 50 55 60	192
tgc acc ctc tcc gtc tot gag att ctg ttc act gtt gcc atc acc cct Cys Thr Leu Ser Val Ser Glu Ile Leu Phe Thr Val Ala Ile Thr Pro 65 70 75 80	240
cgc atg ctg gct gat ctg ctt tcc acc cat cat tcc atc acc ttt gtg Arg Met Leu Ala Asp Leu Leu Ser Thr His His Ser Ile Thr Phe Val 85 90 95	288
gct tgt gcc aac cag atg ttc ttc tcc ttc atg ttt ggc ttc act cac Ala Cys Ala Asn Gln Met Phe Phe Ser Phe Met Phe Gly Phe Thr His 100 105 110	336
tcc ttc ctt ctc ctg gtc atg gcc tat gat cgc tat gtg gcc atc tgc Ser Phe Leu Leu Leu Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys 115 120 125	384
cac cca ctg cgt tac aat gtg ctc atg agc ccc cgt gac tgt gcc cat His Pro Leu Arg Tyr Asn Val Leu Met Ser Pro Arg Asp Cys Ala His 130 135 140	432
ctt gtg gcc tgt acc tgg gct ggt ggc tca gtc atg ggg atg atg gtg Leu Val Ala Cys Thr Trp Ala Gly Gly Ser Val Met Gly Met Met Val 145 150 155 160	480
aca acg ata gtt ttc cac ctc act ttc tgt ggg tot aat gtg atc cac Thr Thr Ile Val Phe His Leu Thr Phe Cys Gly Ser Asn Val Ile His 165 170 175	528
cat ttt ttc tgt cat gtg ctt tcc ctc ttg aag ttg gcc tgt gaa aac His Phe Phe Cys His Val Leu Ser Leu Leu Lys Leu Ala Cys Glu Asn 180 185 190	576
aag aca tca tct gtc atc atg ggt gtg atg ctg gtg tgt gtc aca gcc Lys Thr Ser Ser Val Ile Met Gly Val Met Leu Val Cys Val Thr Ala 195 200 205	624
ctg ata ggc tgt tta ttc ctc atc atc ctc tcc tat gtc ttc att gtg Leu Ile Gly Cys Leu Phe Leu Ile Ile Leu Ser Tyr Val Phe Ile Val 210 215 220	672
gct gcc atc ttg agg att ccc tct gcc gaa ggc cgg cac aag aca ttt Ala Ala Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg His Lys Thr Phe 225 230 235 240	720
tct acg tgt gta tcc cac ctc act gtg gtg gtc acg cac tat agt ttt	768

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Ser Thr Cys Val Ser His Leu Thr Val Val Val Thr His Tyr Ser Phe
      245      250      255
gcc tcc ttt atc tac ctc aag ccc aag ggc ctc cat tct atg tac agt      816
Ala Ser Phe Ile Tyr Leu Lys Pro Lys Gly Leu His Ser Met Tyr Ser
      260      265      270
gac gcc ttg atg gcc acc acc tat act gtc ttc acc ccc ttc ctt agc      864
Asp Ala Leu Met Ala Thr Thr Tyr Thr Val Phe Thr Pro Phe Leu Ser
      275      280      285
cca atc att ttc agc cta agg aac aag gag ctg aag aat gcc ata aat      912
Pro Ile Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Asn Ala Ile Asn
      290      295      300
aaa aac ttt tac aga aaa ttc tgt cct oca agt tcc tga      951
Lys Asn Phe Tyr Arg Lys Phe Cys Pro Pro Ser Ser
      305      310      315

<210> 280
<211> 316
<212> PRT
<213> Homo Sapiens

<400> 280
Met Pro Ser Gln Asn Tyr Ser Ile Ile Ser Glu Phe Asn Leu Phe Gly
1          5          10          15
Phe Ser Ala Phe Pro Gln His Leu Leu Pro Ile Leu Phe Leu Leu Tyr
20          25          30
Leu Leu Met Phe Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala
35          40          45
Thr Ile Trp Ile Glu His Arg Leu His Thr Pro Met Tyr Leu Phe Leu
50          55          60
Cys Thr Leu Ser Val Ser Glu Ile Leu Phe Thr Val Ala Ile Thr Pro
65          70          75          80
Arg Met Leu Ala Asp Leu Leu Ser Thr His His Ser Ile Thr Phe Val
85          90          95
Ala Cys Ala Asn Gln Met Phe Phe Ser Phe Met Phe Gly Phe Thr His
100         105         110
Ser Phe Leu Leu Leu Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys
115         120         125
His Pro Leu Arg Tyr Asn Val Leu Met Ser Pro Arg Asp Cys Ala His
130         135         140

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Leu Val Ala Cys Thr Trp Ala Gly Gly Ser Val Met Gly Met Met Val
145 150 155 160

Thr Thr Ile Val Phe His Leu Thr Phe Cys Gly Ser Asn Val Ile His
165 170 175

His Phe Phe Cys His Val Leu Ser Leu Leu Lys Leu Ala Cys Glu Asn
180 185 190

Lys Thr Ser Ser Val Ile Met Gly Val Met Leu Val Cys Val Thr Ala
195 200 205

Leu Ile Gly Cys Leu Phe Leu Ile Ile Leu Ser Tyr Val Phe Ile Val
210 215 220

Ala Ala Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg His Lys Thr Phe
225 230 235 240

Ser Thr Cys Val Ser His Leu Thr Val Val Val Thr His Tyr Ser Phe
245 250 255

Ala Ser Phe Ile Tyr Leu Lys Pro Lys Gly Leu His Ser Met Tyr Ser
260 265 270

Asp Ala Leu Met Ala Thr Thr Tyr Thr Val Phe Thr Pro Phe Leu Ser
275 280 285

Pro Ile Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Asn Ala Ile Asn
290 295 300

Lys Asn Phe Tyr Arg Lys Phe Cys Pro Pro Ser Ser
305 310 315

<210> 281
<211> 275
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(972)
<223>

<400> 281
atg ttg gag agt aat tac acc atg cca act gag ttc cta ttt gtt gga 48
Met Leu Glu Ser Asn Tyr Thr Met Pro Thr Glu Phe Leu Phe Val Gly
1 5 10 15

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ttc aca gat tat ota cct ctc aga gtc aca ctg ttc ttg gta ttc ctt      96
Phe Thr Asp Tyr Leu Pro Leu Arg Val Thr Leu Phe Leu Val Phe Leu
      20      25      30

ctg gta tat aca tta act atg gtc gga aat ata ctc tta ata att cta      144
Leu Val Tyr Thr Leu Thr Met Val Gly Asn Ile Leu Leu Ile Ile Leu
      35      40      45

gtt aat att aat tca agc ctt caa att ccc atg tat tat ttt ctt agc      192
Val Asn Ile Asn Ser Ser Leu Gln Ile Pro Met Tyr Tyr Phe Leu Ser
      50      55      60

aac tta tct ttc tta gac atc agc tgt tct aca gca atc act cct aaa      240
Asn Leu Ser Phe Leu Asp Ile Ser Cys Ser Thr Ala Ile Thr Pro Lys
      65      70      75      80

atg ctg gca aac ttc ttg gca tcc agg aaa agc atc tct cct tat ggg      288
Met Leu Ala Asn Phe Leu Ala Ser Arg Lys Ser Ile Ser Pro Tyr Gly
      85      90      95

tgt gca cta caa atg ttt ttc ttc gct tct ttt gct gat gct gag tgc      336
Cys Ala Leu Gln Met Phe Phe Phe Ala Ser Phe Ala Asp Ala Glu Cys
      100      105      110

ctt atc ctg gca gca atg gct tat gac cgc tat gca gcc atc tgc aac      384
Leu Ile Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Asn
      115      120      125

cca ctg ctc tat act aca ctg atg tot agg aga gtc tgt gtc tgc ttc      432
Pro Leu Leu Tyr Thr Thr Leu Met Ser Arg Arg Val Cys Val Cys Phe
      130      135      140

att gtg ttg gca tat ttc agt gga agt aca aca tca ctg gtc cat gtg      480
Ile Val Leu Ala Tyr Phe Ser Gly Ser Thr Thr Ser Leu Val His Val
      145      150      155      160

tgc ctc aca ttc agg ctg tca ttt tgt ggc tcc aat atc gtc aat cat      528
Cys Leu Thr Phe Arg Leu Ser Phe Cys Gly Ser Asn Ile Val Asn His
      165      170      175

ttt ttc tgt gat atc cca cct ctt ctg gct tta tca tgt aca gac act      576
Phe Phe Cys Asp Ile Pro Pro Leu Leu Ala Leu Ser Cys Thr Asp Thr
      180      185      190

cag atc aac cag ctt ctg ctc ttt gct ttg tgc agc ttc atc cag acc      624
Gln Ile Asn Gln Leu Leu Leu Phe Ala Leu Cys Ser Phe Ile Gln Thr
      195      200      205

agc act ttt gtg gta ata ttt att tct tac ttc tgc atc ctc atc act      672
Ser Thr Phe Val Val Ile Phe Ile Ser Tyr Phe Cys Ile Leu Ile Thr
      210      215      220

gtg ttg agc atc aag tcc tca ggt ggc aga agc aaa aca ttc tcc act      720
Val Leu Ser Ile Lys Ser Ser Gly Gly Arg Ser Lys Thr Phe Ser Thr
      225      230      235      240

tgt gct tcc cac ctc ata gca gtc acc tta ttc tat gga ggc ctc ctg      768
Cys Ala Ser His Leu Ile Ala Val Thr Leu Phe Tyr Gly Ala Leu Leu
      245      250      255

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ttt atg tac tta cag ccc acc act agc tat tcc cta gac act gat aag      816
Phe Met Tyr Leu Glu Pro Thr Thr Ser Tyr Ser Leu Asp Thr Asp Lys
      260              265              270

gtg gtg gca gtg ttt tat act gtt gta ttt ccc atg ttt aat cca ata      864
Val Val Ala Val Phe Tyr Thr Val Val Phe Pro Met Phe Asn Pro Ile
      275              280              285

att tat agt ttc aga aac aag gat gtg aaa aat gct ctc aaa aag cta      912
Ile Tyr Ser Phe Arg Asn Lys Asp Val Lys Asn Ala Leu Lys Lys Leu
      290              295              300

tta gaa aga att gga tat tca aat gaa tgg tat tta aat cgt tta aga      960
Leu Glu Arg Ile Gly Tyr Ser Asn Glu Trp Tyr Leu Asn Arg Leu Arg
      305              310              315              320

ata gtc aat atc taa      975
Ile Val Asn Ile

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<210> 282
<211> 324
<212> PRT
<213> Homo Sapiens
<400> 282

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Met Leu Glu Ser Asn Tyr Thr Met Pro Thr Glu Phe Leu Phe Val Gly
1      5      10      15

Phe Thr Asp Tyr Leu Pro Leu Arg Val Thr Leu Phe Leu Val Phe Leu
20      25      30

Leu Val Tyr Thr Leu Thr Met Val Gly Asn Ile Leu Leu Ile Ile Leu
35      40      45

Val Asn Ile Asn Ser Ser Leu Gln Ile Pro Met Tyr Tyr Phe Leu Ser
50      55      60

Asn Leu Ser Phe Leu Asp Ile Ser Cys Ser Thr Ala Ile Thr Pro Lys
65      70      75      80

Met Leu Ala Asn Phe Leu Ala Ser Arg Lys Ser Ile Ser Pro Tyr Gly
85      90      95

Cys Ala Leu Gln Met Phe Phe Phe Ala Ser Phe Ala Asp Ala Glu Cys
100     105     110

Leu Ile Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Asn
115     120     125

Pro Leu Leu Tyr Thr Thr Leu Met Ser Arg Arg Val Cys Val Cys Phe

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PCT/BE01/00162

130 135 140
 Ile Val Leu Ala Tyr Phe Ser Gly Ser Thr Thr Ser Leu Val His Val
 145 150 155 160
 Cys Leu Thr Phe Arg Leu Ser Phe Cys Gly Ser Asn Ile Val Asn His
 165 170 175
 Phe Phe Cys Asp Ile Pro Pro Leu Leu Ala Leu Ser Cys Thr Asp Thr
 180 185 190
 Gln Ile Asn Gln Leu Leu Leu Phe Ala Leu Cys Ser Phe Ile Gln Thr
 195 200 205
 Ser Thr Phe Val Val Ile Phe Ile Ser Tyr Phe Cys Ile Leu Ile Thr
 210 215 220
 Val Leu Ser Ile Lys Ser Ser Gly Gly Arg Ser Lys Thr Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Ile Ala Val Thr Leu Phe Tyr Gly Ala Leu Leu
 245 250 255
 Phe Met Tyr Leu Gln Pro Thr Thr Ser Tyr Ser Leu Asp Thr Asp Lys
 260 265 270
 Val Val Ala Val Phe Tyr Thr Val Val Phe Pro Met Phe Asn Pro Ile
 275 280 285
 Ile Tyr Ser Phe Arg Asn Lys Asp Val Lys Asn Ala Leu Lys Lys Leu
 290 295 300
 Leu Glu Arg Ile Gly Tyr Ser Asn Glu Trp Tyr Leu Asn Arg Leu Arg
 305 310 315 320
 Ile Val Asn Ile

<210> 283
 <211> 945
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(942)
 <223>

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PCT/BE01/00162

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<400> 283
atg acc aga aaa aat tat acc tca ctg act gag ttc gtc cta ttg gga      48
Met Thr Arg Lys Asn Tyr Thr Ser Leu Thr Glu Phe Val Leu Leu Gly
1      5      10      15

tta gca gac acg ctg gag cta cag att atc ctc ttt ttg ttt ttt ctt      96
Leu Ala Asp Thr Leu Glu Leu Gln Ile Ile Leu Phe Leu Phe Phe Leu
20      25      30

gtg att tat aca ctt aca gta ctg gga aat ctc ggg atg atc ctc tta      144
Val Ile Tyr Thr Leu Thr Val Leu Gly Asn Leu Gly Met Ile Leu Leu
35      40      45

atc agg atc gat tcc cag ctt cac aca ccc atg tat ttc ttc ctg gct      192
Ile Arg Ile Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ala
50      55      60

aac ctg tcc ttt gtg gac gtt tgt aac tca act acc atc acc cca aag      240
Asn Leu Ser Phe Val Asp Val Cys Asn Ser Thr Thr Ile Thr Pro Lys
65      70      75      80

atg ctg gca gat tta tta tca gag aag aaa acc atc tct ttt gct ggc      288
Met Leu Ala Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly
85      90      95

tgc ttc cta cag atg tac ttc ttt atc tcc ctg gcg aca acc gaa tgc      336
Cys Phe Leu Gln Met Tyr Phe Phe Ile Ser Leu Ala Thr Thr Glu Cys
100      105      110

atc ctc ttt ggg tta atg gcc tat gac agg tat gcg gcc ata tgt cgc      384
Ile Leu Phe Gly Leu Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Arg
115      120      125

ccg ctg ctt tac tcc ttg atc atg tcc agg acc gtc tac cta aaa atg      432
Pro Leu Leu Tyr Ser Leu Ile Met Ser Arg Thr Val Tyr Leu Lys Met
130      135      140

gca gcc ggg gct ttt gct gca ggg ttg ctg aac ttc atg gtc aac aca      480
Ala Ala Gly Ala Phe Ala Ala Gly Leu Leu Asn Phe Met Val Asn Thr
145      150      155      160

agc cat gtc agc agc ttg tca ttc tgt gac tcc aat gtc atc cat cac      528
Ser His Val Ser Ser Leu Ser Phe Cys Asp Ser Asn Val Ile His His
165      170      175

ttc ttc tgt gac agt ccc cca ctt ttc aag ctc tct tgt tct gac aca      576
Phe Phe Cys Asp Ser Pro Pro Leu Phe Lys Leu Ser Cys Ser Asp Thr
180      185      190

atc ctg aaa gaa agc ata agt tct att ttg gct ggt gtg aat att gtg      624
Ile Leu Lys Glu Ser Ile Ser Ser Ile Leu Ala Gly Val Asn Ile Val
195      200      205

ggg act ctg ctt gtc atc ctc tcc tcc tac tcc tac gtt ctc ttc tcc      672
Gly Thr Leu Leu Val Ile Leu Ser Ser Tyr Ser Tyr Val Leu Phe Ser
210      215      220

att ttt tct atg cat tgg ggg gag ggg ags cac aga gct ttc tcc acg      720
Ile Phe Ser Met His Ser Gly Glu Gly Arg His Arg Ala Phe Ser Thr
225      230      235      240

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tgt gcc tct cac ctg aca gcc ata att ctg ttc tat gcc acc tgc atc      768
Cys Ala Ser His Leu Thr Ala Ile Ile Leu Phe Tyr Ala Thr Cys Ile
      245                      250                      255

tat act tac ctg aga cct agt tcc agc tac tcc ctg aat cag gac aaa      816
Tyr Thr Tyr Leu Arg Pro Ser Ser Tyr Ser Leu Asn Gln Asp Lys
      260                      265                      270

gtg gct tct gtg ttc tac aca gtg gtg att ccc atg ttg aat cct ctg      864
Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
      275                      280                      285

atc tac agc ctc agg agt aag gaa gta aag aag gct tta gcg aat gta      912
Ile Tyr Ser Leu Arg Ser Lys Glu Val Lys Lys Ala Leu Ala Asn Val
      290                      295                      300

att agc agg aaa agg acc tct tcc ttt ctg tga                          945
Ile Ser Arg Lys Arg Thr Ser Ser Phe Leu
      305                      310

<210> 284
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 384
Met Thr Arg Lys Asn Tyr Thr Ser Leu Thr Glu Phe Val Leu Leu Gly
1          5          10          15

Leu Ala Asp Thr Leu Glu Leu Gln Ile Ile Leu Phe Leu Phe Phe Leu
20          25          30

Val Ile Tyr Thr Leu Thr Val Leu Gly Asn Leu Gly Met Ile Leu Leu
35          40          45

Ile Arg Ile Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ala
50          55          60

Asn Leu Ser Phe Val Asp Val Cys Asn Ser Thr Thr Ile Thr Pro Lys
65          70          75          80

Met Leu Ala Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly
85          90          95

Cys Phe Leu Gln Met Tyr Phe Phe Ile Ser Leu Ala Thr Thr Glu Cys
100         105         110

Ile Leu Phe Gly Leu Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Arg
115         120         125

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PCT/BE01/00162

Pro Leu Leu Tyr Ser Leu Ile Met Ser Arg Thr Val Tyr Leu Lys Met
130 135 140

Ala Ala Gly Ala Phe Ala Ala Gly Leu Leu Asn Phe Met Val Asn Thr
145 150 155 160

Ser His Val Ser Ser Leu Ser Phe Cys Asp Ser Asn Val Ile His His
165 170 175

Phe Phe Cys Asp Ser Pro Pro Leu Phe Lys Leu Ser Cys Ser Asp Thr
180 185 190

Ile Leu Lys Glu Ser Ile Ser Ser Ile Leu Ala Gly Val Asn Ile Val
195 200 205

Gly Thr Leu Leu Val Ile Leu Ser Ser Tyr Ser Tyr Val Leu Phe Ser
210 215 220

Ile Phe Ser Met His Ser Gly Glu Gly Arg His Arg Ala Phe Ser Thr
225 230 235 240

Cys Ala Ser His Leu Thr Ala Ile Ile Leu Phe Tyr Ala Thr Cys Ile
245 250 255

Tyr Thr Tyr Leu Arg Pro Ser Ser Ser Tyr Ser Leu Asn Gln Asp Lys
260 265 270

Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
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Ile Tyr Ser Leu Arg Ser Lys Glu Val Lys Lys Ala Leu Ala Asn Val
290 295 300

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Val Ser Ser Cys Pro Glu Leu Gln Ile Pro Leu Phe Leu Val Phe Leu	
20 25 30	
gtg ctc tat gtg ctg acc atg gca ggg aac ctg ggc atc atc acc ctc	144
Val Ser Tyr Val Leu Thr Met Ala Gly Asn Leu Gly Ile Ile Thr Leu	
35 40 45	
acc agt gtt gac tct oga ctt caa acc ccc atg tac ttt ttc ctg aga	192
Thr Ser Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg	
50 55 60	
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His Leu Ala Ile Ile Asn Leu Gly Asn Ser Thr Val Ile Ala Pro Lys	
65 70 75 80	
atg ctg atg aac ttt tta gta aag aag aaa act acc tca ttc tat gaa	288
Met Leu Met Asn Phe Leu Val Lys Lys Thr Thr Ser Phe Tyr Glu	
85 90 95	
tgt gcc acc caa ctg gga ggg ttc ttg ttc ttt att gta tgg gag gta	336
Cys Ala Thr Gln Leu Gly Gly Phe Leu Phe Phe Ile Val Ser Glu Val	
100 105 110	
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Met Met Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn	
115 120 125	
cct ctg ctc tac atg gtg gtg gtg tct cgg cgg ctc tgc ctc ctg ctg	432
Pro Leu Leu Tyr Met Val Val Val Ser Arg Arg Leu Cys Leu Leu Leu	
130 135 140	
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Val Ser Leu Thr Tyr Leu Tyr Gly Phe Ser Thr Ala Ile Val Val Ser	
145 150 155 160	
cct tgt ata ttc tct gtg tct tat tgc tct tct aat ata atc aat cat	528
Pro Cys Ile Phe Ser Val Ser Tyr Cys Ser Ser Asn Ile Ile Asn His	
165 170 175	
ttt tac tgt gat att gca cct ctg tta gca tta tct tgc tct gat act	576
Phe Tyr Cys Asp Ile Ala Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr	
180 185 190	
tac ata cca gaa aca ata gtc ttt ata tct gca gca aca aat ttg ttt	624
Tyr Ile Pro Glu Thr Ile Val Phe Ile Ser Ala Ala Thr Asn Leu Phe	
195 200 205	
ttt tcc atg att aca gtt cta gta tct tat ttc aat att gtt ttg tcc	672
Phe Ser Met Ile Thr Val Leu Val Ser Tyr Phe Asn Ile Val Leu Ser	
210 215 220	
att cta agg ata cgt tca cca gaa gga agg aaa aaa gcc ttt tcc acc	720
Ile Leu Arg Ile Arg Ser Pro Glu Gly Arg Lys Lys Ala Phe Ser Thr	
225 230 235 240	
tgc gct tgg cat atg ata gca gtc acg gtt ttc tat ggg aca atg cta	768
Cys Ala Ser His Met Ile Ala Val Thr Val Phe Tyr Gly Thr Met Leu	

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Val Ser Leu Thr Tyr Leu Tyr Gly Phe Ser Thr Ala Ile Val Val Ser
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Pro Cys Ile Phe Ser Val Ser Tyr Cys Ser Ser Asn Ile Ile Asn His
165 170 175

Phe Tyr Cys Asp Ile Ala Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr
180 185 190

Tyr Ile Pro Glu Thr Ile Val Phe Ile Ser Ala Ala Thr Asn Leu Phe
195 200 205

Phe Ser Met Ile Thr Val Leu Val Ser Tyr Phe Asn Ile Val Leu Ser
210 215 220

Ile Leu Arg Ile Arg Ser Pro Glu Gly Arg Lys Lys Ala Phe Ser Thr
225 230 235 240

Cys Ala Ser His Met Ile Ala Val Thr Val Phe Tyr Gly Thr Met Leu
245 250 255

Phe Met Tyr Leu Gln Pro Gln Thr Asn His Ser Leu Asp Thr Asp Lys
260 265 270

Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu
275 280 285

Ile Tyr Ser Leu Arg Asn Asn Asp Val Asn Val Ala Leu Lys Lys Phe
290 295 300

Met Glu Asn Pro Cys Tyr Ser Phe Lys Ser Met
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ttc att tat cta ttc act gtt ttg gga aac ctg gga ctg atc acg tta Phe Ile Tyr Leu Phe Thr Val Leu Gly Asn Leu Gly Leu Ile Thr Leu 35 40 45	144
atc aga atg gat tct cag ctt cac acc cct atg tac ttt ttc ctg agc Ile Arg Met Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser 50 55 60	192
aat tta gca ttt att gac ata ttt tac tcc tct act gta aca cct aag Asn Leu Ala Phe Ile Asp Ile Phe Tyr Ser Ser Thr Val Thr Pro Lys 65 70 75 80	240
gca ttg gtg aat ttc caa tcc aat cgg aga tcc atc tcc ttt gtt ggc Ala Leu Val Asn Phe Gln Ser Asn Arg Arg Ser Ile Ser Phe Val Gly 85 90 95	288
tgc ttt gtt caa atg tac ttt ttt gtt gga ttg gtg tct tgt gag tgt Cys Phe Val Gln Met Tyr Phe Phe Val Gly Leu Val Cys Cys Gln Cys 100 105 110	336
ttc ctt ctg gga tca atg gcc tac aat cgc tac ata gca atc tgc aat Phe Leu Leu Gly Ser Met Ala Tyr Asn Arg Tyr Ile Ala Ile Cys Asn 115 120 125	384
ccc tta ctg tat tca gta gtc atg tcc caa aaa gtg tcc aac tgg ctg Pro Leu Leu Tyr Ser Val Val Met Ser Gln Lys Val Ser Asn Trp Leu 130 135 140	432
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ggc aca gaa atg gtg agc ttt gtc tta gct gga ttc act ctt ctt agc Gly Thr Glu Met Val Ser Phe Val Leu Ala Gly Phe Thr Leu Leu Ser 195 200 205	624
tct ctc ctt atc atc aca gtc act tat atc atc atc atc tca gcc atc Ser Leu Leu Ile Ile Thr Val Thr Tyr Ile Ile Ile Ile Ser Ala Ile 210 215 220	672
ctg agg atc cag tca gca gca ggc agg cag aag gcc ttc tcc acc tgc Leu Arg Ile Gln Ser Ala Ala Gly Arg Gln Lys Ala Phe Ser Thr Cys 225 230 235 240	720
gca tcc cac ctc atg gct gta act atc ttt tat ggg tct ctg att ttc Ala Ser His Leu Met Ala Val Thr Ile Phe Tyr Gly Ser Leu Ile Phe 245 250 255	768
acc tat ttg caa cct gat aac aca tca tgg ctg acc cag ggc cag gtg	816

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Thr Tyr Leu Gln Pro Asp Asn Thr Ser Ser Leu Thr Gln Ala Gln Val
260                               265                               270

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Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile
275                               280                               285

tac agt ctg agg aac aaa gat gtg aaa aat gct ctt ctg aga gtc ata      912
Tyr Ser Leu Arg Asn Lys Asp Val Lys Asn Ala Leu Leu Arg Val Ile
290                               295                               300

cat aga aaa ctt ttt cca tga                                          933
His Arg Lys Leu Phe Pro
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Phe Ile Tyr Leu Phe Thr Val Leu Gly Asn Leu Gly Leu Ile Thr Leu
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Ile Arg Met Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50                               55                               60

Asn Leu Ala Phe Ile Asp Ile Phe Tyr Ser Ser Thr Val Thr Pro Lys
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Ala Leu Val Asn Phe Gln Ser Asn Arg Arg Ser Ile Ser Phe Val Gly
85                               90                               95

Cys Phe Val Gln Met Tyr Phe Phe Val Gly Leu Val Cys Cys Glu Cys
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Phe Leu Leu Gly Ser Met Ala Tyr Asn Arg Tyr Ile Ala Ile Cys Asn
115                              120                              125

Pro Leu Leu Tyr Ser Val Val Met Ser Gln Lys Val Ser Asn Trp Leu
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Gly Val Met Pro Tyr Val Ile Gly Phe Thr Ser Ser Leu Ile Ser Val
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Trp Val Ile Ser Ser Leu Ala Phe Cys Asp Ser Ser Ile Asn His Phe
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Phe Cys Asp Thr Thr Ala Leu Leu Ala Leu Ser Cys Val Asp Thr Phe
180 185 190

Gly Thr Glu Met Val Ser Phe Val Leu Ala Gly Phe Thr Leu Leu Ser
195 200 205

Ser Leu Leu Ile Ile Thr Val Thr Tyr Ile Ile Ile Ile Ser Ala Ile
210 215 220

Leu Arg Ile Gln Ser Ala Ala Gly Arg Gln Lys Ala Phe Ser Thr Cys
235 240 245

Ala Ser His Leu Met Ala Val Thr Ile Phe Tyr Gly Ser Leu Ile Phe
245 250 255

Thr Tyr Leu Gln Pro Asp Asn Thr Ser Ser Leu Thr Gln Ala Gln Val
260 265 270

Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile
275 280 285

Tyr Ser Leu Arg Asn Lys Asp Val Lys Asn Ala Leu Leu Arg Val Ile
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His Arg Lys Leu Phe Pro
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gga ctg aca ctt tct gaa gag atc cag atg gct ctg ttt atg cta ttt 96
Gly Leu Thr Leu Ser Glu Glu Ile Gln Met Ala Leu Phe Met Leu Phe
20 25 30

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PCT/BE01/00162

ctc ctg ata tac cta att act atg ctg ggg aat gbg ggg atg ata ttg Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu 35 40 45	144
ata atc cgc ctg gac ctc cag ctt cag act ccc atg tat ttt ttc ctt Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu 50 55 60	192
act cac ctg tca ttt att gac ctc agt tac tca act gtc gtc aca cct Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro 65 70 75 80	240
aaa acc tta gcg aac tta ctg act tcc aac tat att tcc ttt acg ggc Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly 85 90 95	288
tgc ttt gcc cag atg ttc ttt ttt gcc ttc ttg ggt act gct gaa tgt Cys Phe Ala Gln Met Phe Phe Phe Ala Phe Leu Gly Thr Ala Glu Cys 100 105 110	336
tac ctt ctc tcc tca atg gcc cat gat cgc tat gca ggc atc tgc agt Tyr Leu Leu Ser Ser Met Ala His Asp Arg Tyr Ala Ala Ile Cys Ser 115 120 125	384
cct cta cac tac aca gtt att atg tcc aaa agg ctc tgc ctc gct ctc Pro Leu His Tyr Thr Val Ile Met Ser Lys Arg Leu Cys Leu Ala Leu 130 135 140	432
atc act ggg cct tat gtg att gcc ttt ata gac tcc ttt gtc aac gtg Ile Thr Gly Pro Tyr Val Ile Gly Phe Ile Asp Ser Phe Val Asn Val 145 150 155 160	480
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tac aac aac gaa atc ctg ata ttc att att gtt ggt tcc acc ctg atg Tyr Asn Thr Glu Ile Leu Ile Phe Ile Ile Val Gly Ser Thr Leu Met 195 200 205	624
gtg tcc ctt ttc aca ata tct gca tcc tat gtg ttc att ctc ttt acc Val Ser Leu Phe Thr Ile Ser Ala Ser Tyr Val Phe Ile Leu Phe Thr 210 215 220	672
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ttt act tat tta aaa cca aga aag tct tat tcc ttg gga aga gat aca Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln 260 265 270	816

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 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Val Ile Arg Val
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atg cag aga aga cag gac tcc agg taa 939
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Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu
 35 40 45

Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60

Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro
 65 70 75 80

Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly
 85 90 95

Cys Phe Ala Gln Met Phe Phe Phe Ala Phe Leu Gly Thr Ala Glu Cys
 100 105 110

Tyr Leu Leu Ser Ser Met Ala His Asp Arg Tyr Ala Ala Ile Cys Ser
 115 120 125

Pro Leu His Tyr Thr Val Ile Met Ser Lys Arg Leu Cys Leu Ala Leu
 130 135 140

Ile Thr Gly Pro Tyr Val Ile Gly Phe Ile Asp Ser Phe Val Asn Val
 145 150 155 160

Val Ser Met Ser Arg Leu His Phe Tyr Asp Ser Asn Val Ile His His

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165 170 175
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 Tyr Asn Thr Glu Ile Leu Ile Phe Ile Ile Val Gly Ser Thr Leu Met
 195 200 205
 Val Ser Leu Phe Thr Ile Ser Ala Ser Tyr Val Phe Ile Leu Phe Thr
 210 215 220
 Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Ser Thr Leu Ile
 245 250 255
 Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln
 260 265 270
 Val Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Val Leu Asn Pro Leu
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 gga ctg tca gac tct gaa gag gtc cag atg gct ctg ttt atg cta ttt 96
 Gly Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Met Leu Phe
 20 25 30
 ctc ctc ata tac cta att act atg ctg ggg aat gtg ggg atg cta ttg 144
 Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Leu Leu

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Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu			
50	55	60	
act cac ctg tca ttt att gac ctc agt tac tca act gtc gtc aca cct			240
Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro			
65	70	75	80
aaa acc tta gcg aac tta ctg act tcc aac tat att tcc ttc acg ggc			288
Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly			
85	90	95	
tgc ttt gcc cag atg ttc tgt ttt gtc ttc ttg ggt act gct gaa tgt			336
Cys Phe Ala Gln Met Phe Cys Phe Val Phe Leu Gly Thr Ala Glu Cys			
100	105	110	
tat ctt ctc tcc tca atg gcc tat gat cgc tat gca gcg atc tgc agt			384
Tyr Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Ser			
115	120	125	
cct cta cac tac aca gtt att atg ccc aaa agg ctc tgc ctc gct ctc			432
Pro Leu His Tyr Thr Val Ile Met Pro Lys Arg Leu Cys Leu Ala Leu			
130	135	140	
atc act ggg cct tat gtg att ggc ttt atg gac tcc ttt gtc aat gtg			480
Ile Thr Gly Pro Tyr Val Ile Gly Phe Met Asp Ser Phe Val Asn Val			
145	150	155	160
gtt tcc atg agc aga ttg cat ttc tgt gac tca aac ata att cat cac			528
Val Ser Met Ser Arg Leu His Phe Cys Asp Ser Asn Ile Ile His His			
165	170	175	
ttt ttc tgt gac act tcc cca att tta gct ctg tcc tgc act gac aca			576
Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr			
180	185	190	
gac aac act gaa atg ctg ata ttc att atc gct ggt tcc acc ctg atg			624
Asp Asn Thr Glu Met Leu Ile Phe Ile Ile Ala Gly Ser Thr Leu Met			
195	200	205	
gtg tcc ctt atc aca ata tct gca tcc tat gtg tcc att ctc tct acc			672
Val Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr			
210	215	220	
atc ctg aaa att aat tcc act tca gga aag cag aaa gct ttc tct act			720
Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr			
225	230	235	240
tgc gtc tct cat ctc ttg gga gtc acc atc ttc tat gga act atg att			768
Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile			
245	250	255	
ttt act tac tta aag cca aga aag tct tat tcc ttg gga aga gat caa			816
Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln			
260	265	270	
gtg gct cct gtg ttt tat act att gtg att ccc atg ctg aat cca ctc			864
Val Ala Pro Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu			
275	280	285	

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290                      295                      300

atg cag aga aga cag gac tcc agg tag      919
met gln arg arg gln asp ser arg
305                      310

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Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Leu Leu
35                      40                      45

Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
50                      55                      60

Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro
65                      70                      75                      80

Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly
85                      90                      95

Cys Phe Ala Gln Met Phe Cys Phe Val Phe Leu Gly Thr Ala Glu Cys
100                     105                     110

Tyr Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Ser
115                     120                     125

Pro Leu His Tyr Thr Val Ile Met Pro Lys Arg Leu Cys Leu Ala Leu
130                     135                     140

Ile Thr Gly Pro Tyr Val Ile Gly Phe Met Asp Ser Phe Val Asn Val
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Val Ser Met Ser Arg Leu His Phe Cys Asp Ser Asn Ile Ile His His
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Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr
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Asp Asn Thr Glu Met Leu Ile Phe Ile Ile Ala Gly Ser Thr Leu Met
195 200 205

Val Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr
210 215 220

Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr
225 230 235 240

Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile
245 250 255

Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln
260 265 270

Val Ala Pro Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu
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Met Gln Arg Arg Gln Asp Ser Arg
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Leu Thr Arg Arg Pro Glu Leu Gln Ile Pro Leu Phe Gly Val Phe Leu
20 25 30
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Val Ile Tyr Leu Ile Thr Val Val Gly Asn Leu Thr Met Ile Ile Leu
35 40 45
acc aaa ctg gac tcc cac tta cat aca cct atg tac ttt tct atc aga 192

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His Leu Ala Ser Val Asp Leu Gly Asn Ser Thr Val Ile Cys Pro Lys	
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gtg ctg gca aat ttt gtt gtg gat cga aat act att tcc tat tat gca	288
Val Leu Ala Asn Phe Val Val Asp Arg Asn Thr Ile Ser Tyr Tyr Ala	
85 90 95	
tgt gct gca cag ctg gca ttc ttc ctt atg ttc att atc agt gaa ttt	336
Cys Ala Ala Gln Leu Ala Phe Phe Leu Met Phe Ile Ile Ser Glu Phe	
100 105 110	
ttc atc ctg tca gcc atg gcc tat gac cgc tat gtg gcc att tgt aac	384
Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn	
115 120 125	
cct ctg ctg tat tat gtt att atg tct cag cga ctg tgt cat gta ctg	432
Pro Leu Leu Tyr Tyr Val Ile Met Ser Gln Arg Leu Cys His Val Leu	
130 135 140	
gtg ggc att caa tat ctc tac agc aca ttt cag gct ctg atg ttc act	480
Val Gly Ile Gln Tyr Leu Tyr Ser Thr Phe Gln Ala Leu Met Phe Thr	
145 150 155 160	
att aag att ttt acw ttg acc ttc tgt ggc tct aat gtc atc agt cat	528
Ile Lys Ile Phe Thr Leu Thr Phe Cys Gly Ser Asn Val Ile Ser His	
165 170 175	
ttt tac tgt gat gat gtt cct ttg cta cct atg ctt tgc tca aat gca	576
Phe Tyr Cys Asp Asp Val Pro Leu Leu Pro Met Leu Cys Ser Asn Ala	
180 185 190	
cag gaa ata gaa ttg ttg agc ata cta ttt tct gta ttt aat ttg atc	624
Gln Glu Ile Glu Leu Leu Ser Ile Leu Phe Ser Val Phe Asn Leu Ile	
195 200 205	
tcc tcc ttt ctg ata gtc tta gtg tcc tac atg ttg att ttg tta gct	672
Ser Ser Phe Leu Ile Val Leu Val Ser Tyr Met Leu Ile Leu Leu Ala	
210 215 220	
ata tgt caa atg cat tct gca gag ggc agy aaa aag gct ttc tcc aca	720
Ile Cys Gln Met His Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr	
225 230 235 240	
tgt ggt tcc cat ttg aca gtg gtg gtt gtg ttc tat ggg tct cta ctc	768
Cys Gly Ser His Leu Thr Val Val Val Val Phe Tyr Gly Ser Leu Leu	
245 250 255	
ttc atg tac atg cag ccc aat tcc act cac ttc ttt gat act gat aaa	816
Phe Met Tyr Met Gln Pro Asn Ser Thr His Phe Phe Asp Thr Asp Lys	
260 265 270	
atg gct tct ggg ttt tac act tta gta atc ccc atg ctt aac cct ttg	864
Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu	
275 280 285	
att tac agc tta aga aac gaa gag gtg aaa aat gcc ttc tat aag ctc	912
Ile Tyr Ser Leu Arg Asn Glu Glu Val Lys Asn Ala Phe Tyr Lys Leu	

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290 295 300
 ttt gag aat tga 924
 Phe Glu Asn
 305

 <210> 294
 <211> 307
 <212> PRT
 <213> Homo Sapiens

 <400> 294
 Met Gly Gln His Asn Leu Thr Val Leu Thr Glu Phe Ile Leu Met Glu
 1 5 10 15

 Leu Thr Arg Arg Pro Glu Leu Gln Ile Pro Leu Phe Gly Val Phe Leu
 20 25 30

 Val Ile Tyr Leu Ile Thr Val Val Gly Asn Leu Thr Met Ile Ile Leu
 35 40 45

 Thr Lys Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Ser Ile Arg
 50 55 60

 His Leu Ala Ser Val Asp Leu Gly Asn Ser Thr Val Ile Cys Pro Lys
 65 70 75 80

 Val Leu Ala Asn Phe Val Val Asp Arg Asn Thr Ile Ser Tyr Tyr Ala
 85 90 95

 Cys Ala Ala Gln Leu Ala Phe Phe Leu Met Phe Ile Ile Ser Glu Phe
 100 105 110

 Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125

 Pro Leu Leu Tyr Tyr Val Ile Met Ser Gln Arg Leu Cys His Val Leu
 130 135 140

 Val Gly Ile Gln Tyr Leu Tyr Ser Thr Phe Gln Ala Leu Met Phe Thr
 145 150 155 160

 Ile Lys Ile Phe Thr Leu Thr Phe Cys Gly Ser Asn Val Ile Ser His
 165 170 175

 Phe Tyr Cys Asp Asp Val Pro Leu Leu Pro Met Leu Cys Ser Asn Ala
 180 185 190

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Gln Glu Ile Glu Leu Leu Ser Ile Leu Phe Ser Val Phe Asn Leu Ile
195 200 205

Ser Ser Phe Leu Ile Val Leu Val Ser Tyr Met Leu Ile Leu Leu Ala
210 215 220

Ile Cys Gln Met His Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr
225 230 235 240

Cys Gly Ser His Leu Thr Val Val Val Val Phe Tyr Gly Ser Leu Leu
245 250 255

Phe Met Tyr Met Gln Pro Asn Ser Thr His Phe Phe Asp Thr Asp Lys
260 265 270

Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu
275 280 285

Ile Tyr Ser Leu Arg Asn Glu Glu Val Lys Asn Ala Phe Tyr Lys Leu
290 295 300

Phe Glu Asn
305

<210> 295

<211> 936

<212> DNA

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(933)

<223>

<400> 295

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Met Thr Gly Gly Gly Asn Ile Thr Glu Ile Thr Tyr Phe Ile Leu Leu
1 5 10 15

gga ttc tca gat ttt ccc agg atc ata aaa gtg ctc ttc act ata ttc 96
Gly Phe Ser Asp Phe Pro Arg Ile Ile Lys Val Leu Phe Thr Ile Phe
20 25 30

ctg gtg atc tac att aca tct ctg gcc tgg aac ctc tcc ctc att gtt 144
Leu Val Ile Tyr Ile Thr Ser Leu Ala Trp Asn Leu Ser Leu Ile Val
35 40 45

tta ata agg atg gat tcc cac ctc cat aca ccc atg tat ttc ttc ctc 192
Leu Ile Arg Met Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
50 55 60

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agt aac ctg tcc ttc ata gat gtc tgc tat atc agc tcc aca gtc ccc      240
Ser Asn Leu Ser Phe Ile Asp Val Cys Tyr Ile Ser Ser Thr Val Pro
65              70              75              80

aag atg ctc tcc aac ctc tta cag gaa cag caa act atc act ttt gtt      288
Lys Met Leu Ser Asn Leu Leu Gln Glu Gln Gln Thr Ile Thr Phe Val
85              90              95

ggg tgt att att cag tac ttt atc ttt tca acg atg gga ctg agt gag      336
Gly Cys Ile Ile Gln Tyr Phe Ile Phe Ser Thr Met Gly Leu Ser Glu
100             105             110

tct tgt ctc atg aca gcc atg got tat gat cgt tat got gcc att tgt      384
Ser Cys Leu Met Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys
115             120             125

aac ccc ctg ctc tat tca tcc atc atg tca ccc aac ctc tgt gtt tgg      432
Asn Pro Leu Leu Tyr Ser Ser Ile Met Ser Pro Thr Leu Cys Val Trp
130             135             140

atg gta ctg gga gcc tac atg act ggc ctc act got tct tta ttc caa      480
Met Val Leu Gly Ala Tyr Met Thr Gly Leu Thr Ala Ser Leu Phe Gln
145             150             155

att ggt gct ttg ctt caa ctc caa ttc tgt ggg tct aat gtc atc aga      528
Ile Gly Ala Leu Leu Gln Leu His Phe Cys Gly Ser Asn Val Ile Arg
165             170             175

cat ttc ttc tgt gac atg ccc caa ctg tta atc ttg tcc tgt act gac      576
His Phe Phe Cys Asp Met Pro Gln Leu Leu Ile Leu Ser Cys Thr Asp
180             185             190

act ttc ttt gta cag gtc atg act got ata tta acc atg ttc ttt ggg      624
Thr Phe Phe Val Gln Val Met Thr Ala Ile Leu Thr Met Phe Phe Gly
195             200             205

ata gca agt gcc cta gtt atc atg ata tcc tat ggc tat att ggc atc      672
Ile Ala Ser Ala Leu Val Ile Met Ile Ser Tyr Gly Tyr Ile Gly Ile
210             215             220

tcc atc atg aag atc act tca got aaa ggc agg tcc aag gca ttc aac      720
Ser Ile Met Lys Ile Thr Ser Ala Lys Gly Arg Ser Lys Ala Phe Asn
225             230             235             240

acc tgt gct tct cat cta aca gct gtt tcc ctc ttc tat aca tca gga      768
Thr Cys Ala Ser His Leu Thr Ala Val Ser Leu Phe Tyr Thr Ser Gly
245             250             255

atc ttt gtc tat ttg agt tcc agc tct gga ggt tct tca agc ttt gac      816
Ile Phe Val Tyr Leu Ser Ser Ser Gly Gly Ser Ser Phe Phe Asp
260             265             270

aga ttt gca tct gtt ttc tac act gtg gtc att ccc atg tta aat ccc      864
Arg Phe Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
275             280             285

ttg att tac agt ttg agg aac aaa gaa att aaa gat gcc tta aag agg      912
Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Leu Lys Arg
290             295             300

ttg caa aag aga aag tgc tgc tga      936

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Leu Gln Lys Arg Lys Cys Cys
305 310

<210> 296
<211> 311
<212> PRT
<213> Homo Sapiens

<400> 296

Met Thr Gly Gly Gly Asn Ile Thr Glu Ile Thr Tyr Phe Ile Leu Leu
1 5 10 15

Gly Phe Ser Asp Phe Pro Arg Ile Ile Lys Val Leu Phe Thr Ile Phe
20 25 30

Leu Val Ile Tyr Ile Thr Ser Leu Ala Trp Asn Leu Ser Leu Ile Val
35 40 45

Leu Ile Arg Met Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
50 55 60

Ser Asn Leu Ser Phe Ile Asp Val Cys Tyr Ile Ser Ser Thr Val Pro
65 70 75 80

Lys Met Leu Ser Asn Leu Leu Gln Glu Gln Gln Thr Ile Thr Phe Val
85 90 95

Gly Cys Ile Ile Gln Tyr Phe Ile Phe Ser Thr Met Gly Leu Ser Glu
100 105 110

Ser Cys Leu Met Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys
115 120 125

Asn Pro Leu Leu Tyr Ser Ser Ile Met Ser Pro Thr Leu Cys Val Trp
130 135 140

Met Val Leu Gly Ala Tyr Met Thr Gly Leu Thr Ala Ser Leu Phe Gln
145 150 155 160

Ile Gly Ala Leu Leu Gln Leu His Phe Cys Gly Ser Asn Val Ile Arg
165 170 175

His Phe Phe Cys Asp Met Pro Gln Leu Leu Ile Leu Ser Cys Thr Asp
180 185 190

Thr Phe Phe Val Gln Val Met Thr Ala Ile Leu Thr Met Phe Phe Gly
195 200 205

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Ile Ala Ser Ala Leu Val Ile Met Ile Ser Tyr Gly Tyr Ile Gly Ile
210 215 220

Ser Ile Met Lys Ile Thr Ser Ala Lys Gly Arg Ser Lys Ala Phe Asn
225 230 235 240

Thr Cys Ala Ser His Leu Thr Ala Val Ser Leu Phe Tyr Thr Ser Gly
245 250 255

Ile Phe Val Tyr Leu Ser Ser Ser Ser Gly Gly Ser Ser Ser Phe Asp
260 265 270

Arg Phe Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
275 280 285

Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Leu Lys Arg
290 295 300

Leu Gln Lys Arg Lys Cys Cys
305 310

<210> 297
<211> 951
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(948)
<223>

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ggc gtt cag gag ctg cag cct ttc ttc ttt ggg att ttc tta atc att	96
Gly Val Gln Glu Leu Gln Pro Phe Phe Gly Ile Phe Leu Ile Ile	
20 25 30	
tac ctg ata aac ttg att gga aat gga tct ata ttg gtg atg gtt gtt	144
Tyr Leu Ile Asn Leu Ile Gly Asn Gly Ser Ile Leu Val Met Val Val	
35 40 45	
ttg gaa cca caa ctc cac tcc cct atg tat ttt ttt ctg gga aac ctt	192
Leu Glu Pro Gln Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu	
50 55 60	
tct tgt ctg gat att tct tat tct tca gtg aca ctg ccc sag ctg ctc	240
Ser Cys Leu Asp Ile Ser Tyr Ser Ser Val Thr Leu Pro Lys Leu Leu	
65 70 75 80	

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gta aac ctc gtg tgc agt cgc agg gct ata tct ttt cta ggc tgt atc Val Asn Leu Val Cys Ser Arg Arg Ala Ile Ser Phe Leu Gly Cys Ile 85 90 95	288
acc cag cta cac ttc ttc cac ttt ttg gga agc aca gag gcc att tta Thr Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ala Ile Leu 100 105 110	336
ctg gct atc atg gcc ttt gac cgt ttt gtt gcc atc tgc aat cct ctt Leu Ala Ile Met Ala Phe Asp Arg Phe Val Ala Ile Cys Asn Pro Leu 115 120 125	384
cgc tac act gtc atc atg aac ccc cag gtg tgt att ctg ttg gca gct Arg Tyr Thr Val Ile Met Asn Pro Gln Val Cys Ile Leu Leu Ala Ala 130 135 140	432
ggg gcc tgg ctc atc agc ttc ttt tac gct ctg atg cat tct gtc atg Ala Ala Trp Leu Ile Ser Phe Phe Tyr Ala Leu Met His Ser Val Met 145 150 155 160	480
act gca cac ctg agt ttt tgt ggc tct cag aaa ctc aat cac ttc ttc Thr Ala His Leu Ser Phe Cys Gly Ser Gln Lys Leu Asn His Phe Phe 165 170 175	528
tac gat gtc aag ccg ctc tta gaa ttg gcc tgt agt gac aca tta ctc Tyr Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Ser Asp Thr Leu Leu 180 185 190	576
aat caa tgg ctt ctt tcc att gtc aca ggc agc ata tcc atg gga gct Asn Gln Trp Leu Leu Ser Ile Val Thr Gly Ser Ile Ser Met Gly Ala 195 200 205	624
ttc ttt ctg act ctt ctc tcc tgc ttc tat gta att ggc ttc ctt ctg Phe Phe Leu Thr Leu Leu Ser Cys Phe Tyr Val Ile Gly Phe Leu Leu 210 215 220	672
ttt aag aac agg tcc tgc aga ata ctc cac aag gct ctg tcc act tgt Phe Lys Asn Arg Ser Cys Arg Ile Leu His Lys Ala Leu Ser Thr Cys 225 230 235 240	720
gcc tcc cat ttt atg gtg gta tgt ctt ttc tat gga cct gtg gcc ttc Ala Ser His Phe Met Val Val Cys Leu Phe Tyr Gly Pro Val Gly Phe 245 250 255	768
aca tat att cgt cct gct toa gcc acc tcc atg att cag gac cgg ata Thr Tyr Ile Arg Pro Ala Ser Ala Thr Ser Met Ile Gln Asp Arg Ile 260 265 270	816
atg gcc atc atg tat agc gcc gtc acc cct gta ctg aat cca cta atc Met Ala Ile Met Tyr Ser Ala Val Thr Pro Val Leu Asn Pro Leu Ile 275 280 285	864
tac acc ctt agg aac aaa gaa gtg atg atg gct ctg aag aaa atc ttt Tyr Thr Leu Arg Asn Lys Glu Val Met Met Ala Leu Lys Lys Ile Phe 290 295 300	912
ggt agg aag tgg ttt aaa gac tgg cag caa cac cac tag Gly Arg Lys Leu Phe Lys Asp Trp Gln Gln His His 305 310 315	951

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<210> 298
 <211> 316
 <212> PRT
 <213> Homo Sapiens

<400> 298

Met Glu Asn Val Thr Thr Met Asn Glu Phe Leu Leu Leu Gly Leu Thr
 1 5 10 15

Gly Val Gln Glu Leu Gln Pro Phe Phe Phe Gly Ile Phe Leu Ile Ile
 20 25 30

Tyr Leu Ile Asn Leu Ile Gly Asn Gly Ser Ile Leu Val Met Val Val
 35 40 45

Leu Glu Pro Gln Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu
 50 55 60

Ser Cys Leu Asp Ile Ser Tyr Ser Ser Val Thr Leu Pro Lys Leu Leu
 65 70 75 80

Val Asn Leu Val Cys Ser Arg Arg Ala Ile Ser Phe Leu Gly Cys Ile
 85 90 95

Thr Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ala Ile Leu
 100 105 110

Leu Ala Ile Met Ala Phe Asp Arg Phe Val Ala Ile Cys Asn Pro Leu
 115 120 125

Arg Tyr Thr Val Ile Met Asn Pro Gln Val Cys Ile Leu Leu Ala Ala
 130 135 140

Ala Ala Trp Leu Ile Ser Phe Phe Tyr Ala Leu Met His Ser Val Met
 145 150 155 160

Thr Ala His Leu Ser Phe Cys Gly Ser Gln Lys Leu Asn His Phe Phe
 165 170 175

Tyr Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Ser Asp Thr Leu Leu
 180 185 190

Asn Gln Trp Leu Leu Ser Ile Val Thr Gly Ser Ile Ser Met Gly Ala
 195 200 205

Phe Phe Leu Thr Leu Leu Ser Cys Phe Tyr Val Ile Gly Phe Leu Leu

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210 215 220
 Phe Lys Asn Arg Ser Cys Arg Ile Leu His Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Ala Ser His Phe Met Val Val Cys Leu Phe Tyr Gly Pro Val Gly Phe
 245 250 255
 Thr Tyr Ile Arg Pro Ala Ser Ala Thr Ser Met Ile Gln Asp Arg Ile
 260 265 270
 Met Ala Ile Met Tyr Ser Ala Val Thr Pro Val Leu Asn Pro Leu Ile
 275 280 285
 Tyr Thr Leu Arg Asn Lys Glu Val Met Met Ala Leu Lys Lys Ile Phe
 290 295 300
 Gly Arg Lys Leu Phe Lys Asp Trp Gln Gln His His
 305 310 315

 <210> 299
 <211> 951
 <212> DNA
 <213> Homo Sapiens

 <220>
 <221> CDS
 <222> (1)..(948)
 <223>

 <400> 299
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 Met Glu Ala Ala Asn Glu Ser Ser Glu Gly Ile Ser Phe Val Leu Leu
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 gga ctg aca aca agt cct gga cag cag cgg cct ctc ttt gtg ctg ttc 96
 Gly Leu Thr Thr Ser Pro Gly Gln Gln Arg Pro Leu Phe Val Leu Phe
 20 25 30
 ttg ctc ttg tat gtg gcc agc ctc ctg ggt aat gga ctc att gtg gct 144
 Leu Leu Leu Tyr Val Ala Ser Leu Leu Gly Asn Gly Leu Ile Val Ala
 35 40 45
 gcc atc cag gcc agt cca gcc ctt cat gca ccc atg tac ttc ctg ctg 192
 Ala Ile Gln Ala Ser Pro Ala Leu His Ala Pro Met Tyr Phe Leu Leu
 50 55 60
 gcc cac ctg tcc ttt gct gac ctc tgt ttc gcc tcc gtc act gtg ccc 240
 Ala His Leu Ser Phe Ala Asp Leu Cys Phe Ala Ser Val Thr Val Pro
 65 70 75 80
 aag atg ttg gcc aac ttg ttg gcc cat gac cac tcc atc tgg ctg gct 288
 Lys Met Leu Ala Asn Leu Leu Ala His Asp His Ser Ile Ser Leu Ala

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85	90	95	
ggc tgc ctg acc cca atg tac ttc ttc ttt gcc ctg ggg gta act gat			336
Gly Cys Leu Thr Gln Met Tyr Phe Phe Phe Ala Leu Gly Val Thr Asp			
100	105	110	
agc tgt ctt ctg ggc gcc atg gcc tat gac tgc tac gtg gcc atc cgg			384
Ser Cys Leu Leu Ala Ala Met Ala Tyr Asp Cys Tyr Val Ala Ile Arg			
115	120	125	
cac ccc ctc ccc tat gcc acg agg atg tcc cgg gcc atg tgc gca gcc			432
His Pro Leu Pro Tyr Ala Thr Arg Met Ser Arg Ala Met Cys Ala Ala			
130	135	140	
ctg gtg gga atg gca tgg ctg gtg tcc cac gtc cac tcc ctc ctg tat			480
Leu Val Gly Met Ala Trp Leu Val Ser His Val His Ser Leu Leu Tyr			
145	150	155	160
atc ctg ctc atg gct cga tgg tcc ttc tgt gct tcc cac cca gtg ccc			528
Ile Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Ser His Gln Val Pro			
165	170	175	
cac ttc ttc tgt gac cac cag cct ctc tta agg ctc tgg tgc tct gac			576
His Phe Phe Cys Asp His Gln Pro Leu Leu Arg Leu Ser Cys Ser Asp			
180	185	190	
acc cac cac atc cag ctg ctc atc ttc acc gag ggc gcc gca gtg gtg			624
Thr His His Ile Gln Leu Leu Ile Phe Thr Glu Gly Ala Ala Val Val			
195	200	205	
gtc act ccc ttc ctg ctc atc ctg gcc tcc tat ggg gcc atc gca gct			672
Val Thr Pro Phe Leu Leu Ile Leu Ala Ser Tyr Gly Ala Ile Ala Ala			
210	215	220	
gcc gtg ctc cag ctg ccc tca gcc tct ggg agg ctc cgg gct gtg tcc			720
Ala Val Leu Gln Leu Pro Ser Ala Ser Gly Arg Leu Arg Ala Val Ser			
225	230	235	240
acc tgt ggc tcc cac ctg gct gtg gtg agc ctc ttc tat ggg aca gtc			768
Thr Cys Gly Ser His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Val			
245	250	255	
att gca gtc tac ttc cag gcc aca tcc cga cgc gag gca gag tgg ggc			816
Ile Ala Val Tyr Phe Gln Ala Thr Ser Arg Arg Glu Ala Glu Trp Gly			
260	265	270	
cgt gtg gcc act gtc atg tac act gta gtc acc ccc atg ctg aac ccc			864
Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro			
275	280	285	
atc atc tac agc ctc tgg aat cgc gat gta cag ggg gca ctc cga gcc			912
Ile Ile Tyr Ser Leu Trp Asn Arg Asp Val Gln Gly Ala Leu Arg Ala			
290	295	300	
ctt ctc att ggg cga agg atc tca gct agt gac tcc tga			951
Leu Leu Ile Gly Arg Arg Ile Ser Ala Ser Asp Ser			
305	310	315	

<210> 300

<311> 316

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<212> PRT
 <213> Homo Sapiens

<400> 300

Met Glu Ala Ala Asn Glu Ser Ser Glu Gly Ile Ser Phe Val Leu Leu
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Gly Leu Thr Thr Ser Pro Gly Gln Gln Arg Pro Leu Phe Val Leu Phe
 20 25 30

Leu Leu Leu Tyr Val Ala Ser Leu Leu Gly Asn Gly Leu Ile Val Ala
 35 40 45

Ala Ile Gln Ala Ser Pro Ala Leu His Ala Pro Met Tyr Phe Leu Leu
 50 55 60

Ala His Leu Ser Phe Ala Asp Leu Cys Phe Ala Ser Val Thr Val Pro
 65 70 75 80

Lys Met Leu Ala Asn Leu Leu Ala His Asp His Ser Ile Ser Leu Ala
 85 90 95

Gly Cys Leu Thr Gln Met Tyr Phe Phe Phe Ala Leu Gly Val Thr Asp
 100 105 110

Ser Cys Leu Leu Ala Ala Met Ala Tyr Asp Cys Tyr Val Ala Ile Arg
 115 120 125

His Pro Leu Pro Tyr Ala Thr Arg Met Ser Arg Ala Met Cys Ala Ala
 130 135 140

Leu Val Gly Met Ala Trp Leu Val Ser His Val His Ser Leu Leu Tyr
 145 150 155 160

Ile Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Ser His Gln Val Pro
 165 170 175

His Phe Phe Cys Asp His Gln Pro Leu Leu Arg Leu Ser Cys Ser Asp
 180 185 190

Thr His His Ile Gln Leu Leu Ile Phe Thr Glu Gly Ala Ala Val Val
 195 200 205

Val Thr Pro Phe Leu Leu Ile Leu Ala Ser Tyr Gly Ala Ile Ala Ala
 210 215 220

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Ala Val Leu Gln Leu Pro Ser Ala Ser Gly Arg Leu Arg Ala Val Ser
225 230 235 240

Thr Cys Gly Ser His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Val
245 250 255

Ile Ala Val Tyr Phe Gln Ala Thr Ser Arg Arg Glu Ala Glu Trp Gly
260 265 270

Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
275 280 285

Ile Ile Tyr Ser Leu Trp Asn Arg Asp Val Gln Gly Ala Leu Arg Ala
290 295 300

Leu Leu Ile Gly Arg Arg Ile Ser Ala Ser Asp Ser
305 310 315

<210> 301

<211> 943

<212> DNA

<213> Homo Sapiens

<220>

<221> CD6

<222> (1) .. (939)

<223>

<400> 301

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Met Glu Gln Val Asn Lys Thr Val Val Arg Glu Phe Val Val Leu Gly
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ttc tca tcc ctg gcc agg ctg cag cag ctg ctc ttt gtt atc ttc ctg 96
Phe Ser Ser Leu Ala Arg Leu Gln Gln Leu Leu Phe Val Ile Phe Leu
20 25 30

ctc ctc tac ctg ttc act ctg gcc acc aat gca atc atc att tcc acc 144
Leu Leu Tyr Leu Phe Thr Leu Gly Thr Asn Ala Ile Ile Ile Ser Thr
35 40 45

att gtg ctg gac aga gcc ctt cat act ccc atg tac ttc ttc ctt gcc 192
Ile Val Leu Asp Arg Ala Leu His Thr Pro Met Tyr Phe Phe Leu Ala
50 55 60

atc ctt tct tgc tct gag att tgc tat acc ttt gtc att gta ccc aag 240
Ile Leu Ser Cys Ser Glu Ile Cys Tyr Thr Phe Val Ile Val Pro Lys
65 70 75 80

atg ctg gtt gac ctg ctg tcc cag aag aag acc att tct ttc ctg gcc 288
Met Leu Val Asp Leu Leu Ser Gln Lys Lys Thr Ile Ser Phe Leu Gly
85 90 95

tgt gcc atc caa atg ttt tcc ttc ctc ttc ttt ggc tcc tct cac tcc 336

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Cys Ala Ile Gln Met Phe Ser Phe Leu Phe Phe Gly Ser Ser His Ser
      100      105      110
ttc ctg ctg gca gcc atg ggc tat gat cgc tat atg gcc atc tgt aac      384
Phe Leu Leu Ala Ala Met Gly Tyr Asp Arg Tyr Met Ala Ile Cys Asn
      115      120      125
cca ctg cgc tac tca gtg ctc atg gga cat ggg gtg tgt atg gga cta      432
Pro Leu Arg Tyr Ser Val Leu Met Gly His Gly Val Cys Met Gly Leu
      130      135      140
atg gct gct gcc tgt gcc tgt ggc ttc act gtc tcc ctg gtc acc acc      480
Met Ala Ala Ala Cys Ala Cys Gly Phe Thr Val Ser Leu Val Thr Thr
      145      150      155      160
tcc cta gta ttt cat ctg ccc ttc cac tcc tcc aac cag ctc cat cac      528
Ser Leu Val Phe His Leu Pro Phe His Ser Ser Asn Gln Leu His His
      165      170      175
ttc ttc tgt gac atc tcc cct gtc ctt aaa ctg gca tct cag cac tcc      576
Phe Phe Cys Asp Ile Ser Pro Val Leu Lys Leu Ala Ser Gln His Ser
      180      185      190
ggc ttc agt cag ctg gtc ata ttc atg ctt ggt gta ttt gcc ttg gtc      624
Gly Phe Ser Gln Leu Val Ile Phe Met Leu Gly Val Phe Ala Leu Val
      195      200      205
att cct ctg cta ctt atc cta gtc tcc tac atc cgc atc atc tct gcc      672
Ile Pro Leu Leu Leu Ile Leu Val Ser Tyr Ile Arg Ile Ile Ser Ala
      210      215      220
att cta aaa atc cct tcc tcc gtt gga aga tac aag acc ttc tcc acc      720
Ile Leu Lys Ile Pro Ser Ser Val Gly Arg Tyr Lys Thr Phe Ser Thr
      225      230      235      240
tgt gcc tcc cat ctc att gtg gta act gtt cac tac agt tgt gcc tct      768
Cys Ala Ser His Leu Ile Val Val Thr Val His Tyr Ser Cys Ala Ser
      245      250      255
ttc atc tac tta agg ccc aag act aat tac act tca agc caa gac acc      816
Phe Ile Tyr Leu Arg Pro Lys Thr Asn Tyr Thr Ser Ser Gln Asp Thr
      260      265      270
cta ata tct gtg tca tac acc atc ctt acc cca ttg ttc aat cca atg      864
Leu Ile Ser Val Ser Tyr Thr Ile Leu Thr Pro Leu Phe Asn Pro Met
      275      280      285
att tat agt ctg aga aat aag gaa ttc aaa tca gcc cta cga aga aca      912
Ile Tyr Ser Leu Arg Asn Lys Glu Phe Lys Ser Ala Leu Arg Arg Thr
      290      295      300
atc gcc caa act ttc tat cct ctt agt taa      942
Ile Gly Gln Thr Phe Tyr Pro Leu Ser
      305      310
<210> 302
<211> 313
<212> PRT
<213> Homo Sapiens

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<400> 302

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Met Glu Gln Val Asn Lys Thr Val Val Arg Glu Phe Val Val Leu Gly
1      5      10      15

Phe Ser Ser Leu Ala Arg Leu Gln Gln Leu Leu Phe Val Ile Phe Leu
20     25     30

Leu Leu Tyr Leu Phe Thr Leu Gly Thr Asn Ala Ile Ile Ile Ser Thr
35     40     45

Ile Val Leu Asp Arg Ala Leu His Thr Pro Met Tyr Phe Phe Leu Ala
50     55     60

Ile Leu Ser Cys Ser Glu Ile Cys Tyr Thr Phe Val Ile Val Pro Lys
65     70     75     80

Met Leu Val Asp Leu Leu Ser Gln Lys Lys Thr Ile Ser Phe Leu Gly
85     90     95

Cys Ala Ile Gln Met Phe Ser Phe Leu Phe Phe Gly Ser Ser His Ser
100    105    110

Phe Leu Leu Ala Ala Met Gly Tyr Asp Arg Tyr Met Ala Ile Cys Asn
115    120    125

Pro Leu Arg Tyr Ser Val Leu Met Gly His Gly Val Cys Met Gly Leu
130    135    140

Met Ala Ala Ala Cys Ala Cys Gly Phe Thr Val Ser Leu Val Thr Thr
145    150    155    160

Ser Leu Val Phe His Leu Pro Phe His Ser Ser Asn Gln Leu His His
165    170    175

Phe Phe Cys Asp Ile Ser Pro Val Leu Lys Leu Ala Ser Gln His Ser
180    185    190

Gly Phe Ser Gln Leu Val Ile Phe Met Leu Gly Val Phe Ala Leu Val
195    200    205

Ile Pro Leu Leu Leu Ile Leu Val Ser Tyr Ile Arg Ile Ile Ser Ala
210    215    220

Ile Leu Lys Ile Pro Ser Ser Val Gly Arg Tyr Lys Thr Phe Ser Thr
225    230    235    240

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Cys Ala Ser His Leu Ile Val Val Thr Val His Tyr Ser Cys Ala Ser
245 250 255

Phe Ile Tyr Leu Arg Pro Lys Thr Asn Tyr Thr Ser Ser Gln Asp Thr
260 265 270

Leu Ile Ser Val Ser Tyr Thr Ile Leu Thr Pro Leu Phe Asn Pro Met
275 280 285

Ile Tyr Ser Leu Arg Asn Lys Glu Phe Lys Ser Ala Leu Arg Arg Thr
290 295 300

Ile Gly Gln Thr Phe Tyr Pro Leu Ser
305 310

<210> 303
<211> 954
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(951)
<223>

<400> 303
atg aga aat ttg agt gga ggc cat gtc gag gag ttt gtc ttg gtg ggt 48
Met Arg Asn Leu Ser Gly Gly His Val Glu Glu Phe Val Leu val Gly
1 5 10 15
ttc cct acc acg cct ccc ctc cag ctg ctc ctc ttt gtc ctt ttt ttt 96
Phe Pro Thr Thr Pro Pro Leu Gln Leu Leu Leu Phe Val Leu Phe Phe
20 25 30
gca att tac ctt ctg aca ttg ttg gag aat gca ctt att gtc ttc aca 144
Ala Ile Tyr Leu Leu Thr Leu Leu Glu Asn Ala Leu Ile Val Phe Thr
35 40 45
ata tgg ctt gct cca agc ctt cat cgt ccc atg tac ttt ttc ctt ggc 192
Ile Trp Leu Ala Pro Ser Leu His Arg Pro Met Tyr Phe Phe Leu Gly
50 55 60
cat ctc tot ttc ctg gag cta tgg tac atc aat gtc acc att cct cgg 240
His Leu Ser Phe Leu Glu Leu Trp Tyr Ile Asn Val Thr Ile Pro Arg
65 70 75 80
ctc ttg gca gcc ttt ctt acc cag gat ggt aga gtc tcc tac gta ggt 288
Leu Leu Ala Ala Phe Leu Thr Gln Asp Gly Arg Val Ser Tyr Val Gly
85 90 95
tgc atg acc caa ctg tac ttc ttt att gcc tta gcc tgt act gaa tgt 336
Cys Met Thr Gln Leu Tyr Phe Phe Ile Ala Leu Ala Cys Thr Glu Cys
100 105 110

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gtg ctg ttg gca gtt atg gcc tat gat cgc tac ctg gcc atc tgt gga      384
Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Gly
115                      120                      125

ccc ctc ctt tac cct agt ctc atg cct tcc agt ctg gcc act cgc ctt      432
Pro Leu Leu Tyr Pro Ser Leu Met Pro Ser Ser Leu Ala Thr Arg Leu
130                      135                      140

gct gct gcc tct tgg ggc agt ggc ttc ttc agc tcc atg atg aag ctt      480
Ala Ala Ala Ser Trp Gly Ser Gly Phe Phe Ser Ser Met Met Lys Leu
145                      150                      155                      160

ctt ttt att tcc caa ttg tcc tac tgt gga ccc aac att atc aac cac      528
Leu Phe Ile Ser Gln Leu Ser Tyr Cys Gly Pro Asn Ile Ile Asn His
165                      170                      175

ttt ttc tgt gat att tcc cca cta ctc aac ctc acc tgc tct gac aag      576
Phe Phe Cys Asp Ile Ser Pro Leu Leu Asn Leu Thr Cys Ser Asp Lys
180                      185                      190

gag caa gca gag cta gta gac ttc ctt ctg gcc ctg gtg atg att cta      624
Glu Gln Ala Glu Leu Val Asp Phe Leu Leu Ala Leu Val Met Ile Leu
195                      200                      205

ctc cct cta ttg gct gtg gtt tca tca tac act gcc atc att gca gcc      672
Leu Pro Leu Leu Ala Val Val Ser Ser Tyr Thr Ala Ile Ile Ala Ala
210                      215                      220

atc ctg agg atc cct acg tcc agg gga cgc cac aaa gcc ttt tcc act      720
Ile Leu Arg Ile Pro Thr Ser Arg Gly Arg His Lys Ala Phe Ser Thr
225                      230                      235                      240

tgt gcc gct cat ctg gca gtg gtt gtt atc tac tac tcc tcc act ctc      768
Cys Ala Ala His Leu Ala Val Val Val Ile Tyr Tyr Ser Ser Thr Leu
245                      250                      255

ttc acc tat gca cgg ccc cgg gcc atg tac acc ttc aac cac aac aag      816
Phe Thr Tyr Ala Arg Pro Arg Ala Met Tyr Thr Phe Asn His Asn Lys
260                      265                      270

att atc tct gtg ctc tac act atc att gta cca ttc ttc aac cca gcc      864
Ile Ile Ser Val Leu Tyr Thr Ile Ile Val Pro Phe Phe Asn Pro Ala
275                      280                      285

atc tac tgc ctg agg aac aag gag gtg aag gag gcc ttc agg aag aca      912
Ile Tyr Cys Leu Arg Asn Lys Glu Val Lys Glu Ala Phe Arg Lys Thr
290                      295                      300

gtg atg ggc aga tgt cac tat cct agg gat gtt cag gac tga      954
Val Met Gly Arg Cys His Tyr Pro Arg Asp Val Gln Asp
305                      310                      315

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<210> 304
 <211> 317
 <212> PRT
 <213> Homo Sapiens

<400> 304

Met Arg Asn Leu Ser Gly Gly His Val Glu Glu Phe Val Leu Val Gly

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1 5 10 15
 Phe Pro Thr Thr Pro Pro Leu Gln Leu Leu Leu Phe Val Leu Phe Phe
 20 25 30
 Ala Ile Tyr Leu Leu Thr Leu Leu Glu Asn Ala Leu Ile Val Phe Thr
 35 40 45
 Ile Trp Leu Ala Pro Ser Leu His Arg Pro Met Tyr Phe Phe Leu Gly
 50 55 60
 His Leu Ser Phe Leu Glu Leu Trp Tyr Ile Asn Val Thr Ile Pro Arg
 65 70 75 80
 Leu Leu Ala Ala Phe Leu Thr Gln Asp Gly Arg Val Ser Tyr Val Gly
 85 90 95
 Cys Met Thr Gln Leu Tyr Phe Phe Ile Ala Leu Ala Cys Thr Glu Cys
 100 105 110
 Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Gly
 115 120 125
 Pro Leu Leu Tyr Pro Ser Leu Met Pro Ser Ser Leu Ala Thr Arg Leu
 130 135 140
 Ala Ala Ala Ser Trp Gly Ser Gly Phe Phe Ser Ser Met Met Lys Leu
 145 150 155 160
 Leu Phe Ile Ser Gln Leu Ser Tyr Cys Gly Pro Asn Ile Ile Asn His
 165 170 175
 Phe Phe Cys Asp Ile Ser Pro Leu Leu Asn Leu Thr Cys Ser Asp Lys
 180 185 190
 Glu Gln Ala Glu Leu Val Asp Phe Leu Leu Ala Leu Val Met Ile Leu
 195 200 205
 Leu Pro Leu Leu Ala Val Val Ser Ser Tyr Thr Ala Ile Ile Ala Ala
 210 215 220
 Ile Leu Arg Ile Pro Thr Ser Arg Gly Arg His Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ala His Leu Ala Val Val Val Ile Tyr Tyr Ser Ser Thr Leu
 245 250 255

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Phe Thr Tyr Ala Arg Pro Arg Ala Met Tyr Thr Phe Asn His Asn Lys
260 265 270

Ile Ile Ser Val Leu Tyr Thr Ile Ile Val Pro Phe Phe Asn Pro Ala
275 280 285

Ile Tyr Cys Leu Arg Asn Lys Glu Val Lys Glu Ala Phe Arg Lys Thr
290 295 300

Val Met Gly Arg Cys His Tyr Pro Arg Asp Val Gln Asp
305 310 315

<210> 305
<211> 930
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(927)
<223>

<400> 305
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Met Lys Ile Asn Gln Thr Ile Leu Lys Glu Phe Ile Leu Val Gly Phe
1 5 10 15
tct gtg tac cca cat gta cag aca ttt ctt ttt gtg gtc ttc ttt tgt 96
Ser Val Tyr Pro His Val Gln Thr Phe Leu Phe Val Val Phe Phe Cys
20 25 30
ctc tac ctt ctc acc ctt gca ggt aat ctg atc atc atg ggt cta act 144
Leu Tyr Leu Leu Thr Leu Ala Gly Asn Leu Ile Ile Met Gly Leu Thr
35 40 45
tgg gtg gac agg tcc ctc cac acc cct atg tat ctc ttc ctt agt gca 192
Trp Val Asp Arg Ser Leu His Thr Pro Met Tyr Leu Phe Leu Ser Ala
50 55 60
ctc tcc ttc tct gag acc tgc tat acg ctg acc atc gtc ccc aag atg 240
Leu Ser Phe Ser Glu Thr Cys Tyr Thr Leu Thr Ile Val Pro Lys Met
65 70 75 80
ctg gaa gat cta ctg gcc aag gac aga agc att tca gtc aca ggt tgt 288
Leu Glu Asp Leu Leu Ala Lys Asp Arg Ser Ile Ser Val Thr Gly Cys
85 90 95
agc tta cag atg tgc ttc ttc ttg gga ctt ggt ggc aca aac tgt atc 336
Ser Leu Gln Met Cys Phe Phe Leu Gly Leu Gly Gly Thr Asn Cys Ile
100 105 110
att ctc act ttg atg gga tat gac cgc ttc ctg gcc atc tgt aac cct 384
Ile Leu Thr Leu Met Gly Tyr Asp Arg Phe Leu Ala Ile Cys Asn Pro
115 120 125

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cta aga tat cca ctg ctt atg acc aac att gta tgt gga caa ctt gtg 432
 Leu Arg Tyr Pro Leu Leu Met Thr Asn Ile Val Cys Gly Gln Leu Val
 130 135 140
 gcc tct gct tgc act gca gcc ttc ttt atc tct ctt aca gag act gca 480
 Ala Ser Ala Cys Thr Ala Gly Phe Phe Ile Ser Leu Thr Glu Thr Ala
 145 150 155 160
 ctg ata ttc agg gac tct ttc tgc aga ccc aac ctt gtc aaa cac ttc 528
 Leu Ile Phe Arg Asp Ser Phe Cys Arg Pro Asn Leu Val Lys His Phe
 165 170 175
 ttc tgc cat atg ctg gca gtt att agg ctg tct tgt ata gac agt aac 576
 Phe Cys His Met Leu Ala Val Ile Arg Leu Ser Cys Ile Asp Ser Asn
 180 185 190
 cac aca gaa ttc att ata aca ctg atc tca gtg tct ggt ttg ctg ggt 624
 His Thr Glu Phe Ile Ile Thr Leu Ile Ser Val Ser Gly Leu Leu Gly
 195 200 205
 acc ctt ctg ctc atc atc ctg act gat gtc ttc att att tct act gtc 672
 Thr Leu Leu Leu Ile Ile Leu Thr Asp Val Phe Ile Ile Ser Thr Val
 210 215 220
 ctc agg atc cct tca gct gag gcc aag cag aag gcc ttc acc acc tgt 720
 Leu Arg Ile Pro Ser Ala Glu Gly Lys Gln Lys Ala Phe Thr Thr Cys
 225 230 235 240
 gcc tcc cac ctc acc gtg gtt ata atc cac ttt ggt ttt gca tct att 768
 Ala Ser His Leu Thr Val Val Ile Ile His Phe Gly Phe Ala Ser Ile
 245 250 255
 gtt tat ttg aag cca gaa gcc tca gga gat gac aca ctc ata gca gtc 816
 Val Tyr Leu Lys Pro Glu Ala Ser Gly Asp Thr Leu Ile Ala Val
 260 265 270
 cct tat act gtc att acc ccc ttc ctc agc ccc atc ata ttc agc ctg 864
 Pro Tyr Thr Val Ile Thr Pro Phe Leu Ser Pro Ile Ile Phe Ser Leu
 275 280 285
 agg aat aag gac atg aaa aat gct ttt aga aga atg atg gga aac aca 912
 Arg Asn Lys Asp Met Lys Asn Ala Phe Arg Arg Met Met Gly Asn Thr
 290 295 300
 gtt gcc ttg aaa aaa taa 930
 Val Ala Leu Lys Lys
 305

<210> 306
 <211> 309
 <212> PRT
 <213> Homo Sapiens

<400> 306

Met Lys Ile Asn Gln Thr Ile Leu Lys Glu Phe Ile Leu Val Gly Phe
 1 5 10 15

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Ser Val Tyr Pro His Val Gln Thr Phe Leu Phe Val Val Phe Phe Cys
 20 25 30
 Leu Tyr Leu Leu Thr Leu Ala Gly Asn Leu Ile Ile Met Gly Leu Thr
 35 40 45
 Trp Val Asp Arg Ser Leu His Thr Pro Met Tyr Leu Phe Leu Ser Ala
 50 55 60
 Leu Ser Phe Ser Glu Thr Cys Tyr Thr Leu Thr Ile Val Pro Lys Met
 65 70 75 80
 Leu Glu Asp Leu Leu Ala Lys Asp Arg Ser Ile Ser Val Thr Gly Cys
 85 90 95
 Ser Leu Gln Met Cys Phe Phe Leu Gly Leu Gly Gly Thr Asn Cys Ile
 100 105 110
 Ile Leu Thr Leu Met Gly Tyr Asp Arg Phe Leu Ala Ile Cys Asn Pro
 115 120 125
 Leu Arg Tyr Pro Leu Leu Met Thr Asn Ile Val Cys Gly Gln Leu Val
 130 135 140
 Ala Ser Ala Cys Thr Ala Gly Phe Phe Ile Ser Leu Thr Glu Thr Ala
 145 150 155 160
 Leu Ile Phe Arg Asp Ser Phe Cys Arg Pro Asn Leu Val Lys His Phe
 165 170 175
 Phe Cys His Met Leu Ala Val Ile Arg Leu Ser Cys Ile Asp Ser Asn
 180 185 190
 His Thr Glu Phe Ile Ile Thr Leu Ile Ser Val Ser Gly Leu Leu Gly
 195 200 205
 Thr Leu Leu Leu Ile Ile Leu Thr Asp Val Phe Ile Ile Ser Thr Val
 210 215 220
 Leu Arg Ile Pro Ser Ala Glu Gly Lys Gln Lys Ala Phe Thr Thr Cys
 225 230 235 240
 Ala Ser His Leu Thr Val Val Ile Ile His Phe Gly Phe Ala Ser Ile
 245 250 255
 Val Tyr Leu Lys Pro Glu Ala Ser Gly Asp Asp Thr Leu Ile Ala Val

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                260                265                270

Pro Tyr Thr Val Ile Thr Pro Phe Leu Ser Pro Ile Ile Phe Ser Leu
275                280                285

Arg Asn Lys Asp Met Lys Asn Ala Phe Arg Arg Met Met Gly Asn Thr
290                295                300

Val Ala Leu Lys Lys
305

<210> 307
<211> 969
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(963)
<223>

<400> 307
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Met Gln Pro Gln Asn Thr Ser Thr Val Thr Asn Phe Gln Leu Leu Gly
1      5      10      15

ttc cag aac ctt ctt gaa tgg cag gcc ctg ctc ttt gtc att ttc ctg      96
Phe Gln Asn Leu Leu Glu Trp Gln Ala Leu Leu Phe Val Ile Phe Leu
20      25      30

ctc atc tac tgc ctg acc att ata ggg aat gtt gtc atc atc acc gtg      144
Leu Ile Tyr Cys Leu Thr Ile Ile Gly Asn Val Val Ile Ile Thr Val
35      40      45

gtg agc cag gcc ctg cga ctg cac tcc cct atg tac atg ttc ctc cag      192
Val Ser Gln Gly Leu Arg Leu His Ser Pro Met Tyr Met Phe Leu Gln
50      55      60

cat ctc tcc ttt ctg gag gtc tgg tac acg tcc acc act gtg gcc att      240
His Leu Ser Phe Leu Glu Val Trp Tyr Thr Ser Thr Thr Val Pro Leu
65      70      75      80

ctc cta gcc aac ctg ctg tcc tgg ggc caa gcc atc tcc ttc tct gcc      288
Leu Leu Ala Asn Leu Leu Ser Trp Gly Gln Ala Ile Ser Phe Ser Ala
85      90      95

tgc atg gca cag ctc tac ttc ttc gta ttc ctc ggc gcc acc gag tgc      336
Cys Met Ala Gln Leu Tyr Phe Phe Val Phe Leu Gly Ala Thr Glu Cys
100      105      110

ttt ctc ctg gcc ttc atg gcc tat gac cgt tac ctg gcc atc tgc agc      384
Phe Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Ser
115      120      125

cca ctc cgc tac ccc ttt ctc atg cat cgt ggg cta tgt gcc agg ttg      432
Pro Leu Arg Tyr Pro Phe Leu Met His Arg Gly Leu Cys Ala Arg Leu

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130	135	140	
gtg gtc gtc tca tgg tgc aca ggg gtc agc aca ggc ttt ctg cat tcc			480
Val Val Val Ser Trp Cys Thr Gly Val Ser Thr Gly Phe Leu His Ser			
145	150	155	160
atg atg att tcc agg ttg gac ttc tgt ggg cgc aat cag att aac cat			528
Met Met Ile Ser Arg Leu Asp Phe Cys Gly Arg Asn Gln Ile Asn His			
165	170	175	
ttc ttc tgc gac ctg cgg cca ctg atg cag ctg tcc tgt tcc aga gtt			576
Phe Phe Cys Asp Leu Pro Pro Leu Met Gln Leu Ser Cys Ser Arg Val			
180	185	190	
tat atc acc gag gtg acc atc ttc atc ctg tca att gcc gtg ctg tgc			624
Tyr Ile Thr Glu Val Thr Ile Phe Ile Leu Ser Ile Ala Val Leu Cys			
195	200	205	
att tgt ttt ttt ctg aca ctg ggg ccc tat gtt ttc att gtg tcc tcc			672
Ile Cys Phe Phe Leu Thr Leu Gly Pro Tyr Val Phe Ile Val Ser Ser			
210	215	220	
ata ttg aga atc cct tcc acc tct ggc cgg aga aag acc ttt tcc aca			720
Ile Leu Arg Ile Pro Ser Thr Ser Gly Arg Arg Lys Thr Phe Ser Thr			
225	230	235	240
tgt ggc tcc cac ctg gct gtt gtc act ctg tac tac ggg acc atg atc			768
Cys Gly Ser His Leu Ala Val Val Thr Leu Tyr Tyr Gly Thr Met Ile			
245	250	255	
tcc atg tat gtg tgt ccc agt ccc cac ctg ttg cct gaa atc aac aag			816
Ser Met Tyr Val Cys Pro Ser Pro His Leu Leu Pro Glu Ile Asn Lys			
260	265	270	
atc att tct gtc ttc tac act gtg gtc aca cca ctg ctg aac cca gtt			864
Ile Ile Ser Val Phe Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Val			
275	280	285	
atc tac agc ttg agg aac aaa gac ttc aaa gaa gct gtt aga aag gtc			912
Ile Tyr Ser Leu Arg Asn Lys Asp Phe Lys Glu Ala Val Arg Lys Val			
290	295	300	
atg aga agg aaa tgt ggt att cta tgg agt aca agt aaa agg aag ttc			960
Met Arg Arg Lys Cys Gly Ile Leu Trp Ser Thr Ser Lys Arg Lys Phe			
305	310	315	320
ctt tattag			969
Leu			
<210> 308			
<211> 321			
<212> PRT			
<213> Homo Sapiens			
<400> 308			
Met Glu Pro Glu Asn Thr Ser Thr Val Thr Asn Phe Gln Leu Leu Gly			
1	5	10	15

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Phe Gln Asn Leu Leu Glu Trp Gln Ala Leu Leu Phe Val Ile Phe Leu
 20 25 30
 Leu Ile Tyr Cys Leu Thr Ile Ile Gly Asn Val Val Ile Ile Thr Val
 35 40 45
 Val Ser Gln Gly Leu Arg Leu His Ser Pro Met Tyr Met Phe Leu Gln
 50 55 60
 His Leu Ser Phe Leu Glu Val Trp Tyr Thr Ser Thr Thr Val Pro Leu
 65 70 75 80
 Leu Leu Ala Asn Leu Leu Ser Trp Gly Gln Ala Ile Ser Phe Ser Ala
 85 90 95
 Cys Met Ala Gln Leu Tyr Phe Phe Val Phe Leu Gly Ala Thr Glu Cys
 100 105 110
 Phe Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Ser
 115 120 125
 Pro Leu Arg Tyr Pro Phe Leu Met His Arg Gly Leu Cys Ala Arg Leu
 130 135 140
 Val Val Val Ser Trp Cys Thr Gly Val Ser Thr Gly Phe Leu His Ser
 145 150 155 160
 Met Met Ile Ser Arg Leu Asp Phe Cys Gly Arg Asn Gln Ile Asn His
 165 170 175
 Phe Phe Cys Asp Leu Pro Pro Leu Met Gln Leu Ser Cys Ser Arg Val
 180 185 190
 Tyr Ile Thr Glu Val Thr Ile Phe Ile Leu Ser Ile Ala Val Leu Cys
 195 200 205
 Ile Cys Phe Phe Leu Thr Leu Gly Pro Tyr Val Phe Ile Val Ser Ser
 210 215 220
 Ile Leu Arg Ile Pro Ser Thr Ser Gly Arg Arg Lys Thr Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Ala Val Val Thr Leu Tyr Tyr Gly Thr Met Ile
 245 250 255

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Ser Met Tyr Val Cys Pro Ser Pro His Leu Leu Pro Glu Ile Asn Lys
 260 265 270

Ile Ile Ser Val Phe Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Val
 275 280 285

Ile Tyr Ser Leu Arg Asn Lys Asp Phe Lys Glu Ala Val Arg Lys Val
 290 295 300

Met Arg Arg Lys Cys Gly Ile Leu Trp Ser Thr Ser Lys Arg Lys Phe
 305 310 315 320

Leu

<210> 309
 <211> 939
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(936)
 <223>

<400> 309
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 Met Glu Asn Tyr Asn Gln Thr Ser Thr Asp Phe Ile Leu Leu Gly Leu
 1 5 10
 ttt cca cca tca ata att gac ctt ttc ttc ttc att ctc att gtt ttc 96
 Phe Pro Pro Ser Ile Ile Asp Leu Phe Phe Phe Ile Leu Ile Val Phe
 20 25 30
 att ttc ctg atg gct cta att gga aac ctg tcc atg att ctt ctc atc 144
 Ile Phe Leu Met Ala Leu Ile Gly Asn Leu Ser Met Ile Leu Leu Ile
 35 40 45
 ttc ttg gac acc cat ctc cac aca ccc atg tat ttc cta ctg agt cag 192
 Phe Leu Asp Thr His Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln
 50 55 60
 ctc tcc ctc att gac cta aat tac atc tcc acc att gtt cct aag atg 240
 Leu Ser Leu Ile Asp Leu Asn Tyr Ile Ser Thr Ile Val Pro Lys Met
 65 70 75 80
 gca tct gat ttt ctg cat gga aac aag tct atc tcc ttc act ggg tgt 288
 Ala Ser Asp Phe Leu His Gly Asn Lys Ser Ile Ser Phe Thr Gly Cys
 85 90 95
 ggg att cag agt ttc ttc ttc ttg gca tta gga ggt gca gaa gca cta 336
 Gly Ile Gln Ser Phe Phe Phe Leu Ala Leu Gly Gly Ala Glu Ala Leu
 100 105 110
 ctt ttg gca tct atg gcc tat gat cgt tac att gct att tgc ttt cct 384

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Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Phe Pro
115 120 125
ctc cac tat ctc atc cgc atg agc aaa aga gtg tgt gtg ctg atg ata 432
Leu His Tyr Leu Ile Arg Met Ser Lys Arg Val Cys Val Leu Met Ile
130 135 140
aca ggg tct tgg atc ata ggc tgc atc aat gct tgt gct cac act gta 480
Thr Gly Ser Trp Ile Ile Gly Ser Ile Asn Ala Cys Ala His Thr Val
145 150 155 160
tat gta ctc cat att cct tat tgc cga tcc agg gcc atc aat cat ttc 528
Tyr Val Leu His Ile Pro Tyr Cys Arg Ser Arg Ala Ile Asn His Phe
165 170 175
ttc tgt gat gtc cca gca atg gtg act ctg gcc tgc atg gac acc tgg 576
Phe Cys Asp Val Pro Ala Met Val Thr Leu Ala Cys Met Asp Thr Trp
180 185 190
gtc tat gag ggc aca gtg ttt ttg agt gcc acc atc ttt ctc gtg ttt 624
Val Tyr Glu Gly Thr Val Phe Leu Ser Ala Thr Ile Phe Leu Val Phe
195 200 205
ccc ttc att ggt att tca tgt tcc tat gcc cag gtt ctc ttt gct gtc 672
Pro Phe Ile Gly Ile Ser Cys Ser Tyr Gly Gln Val Leu Phe Ala Val
210 215 220
tac cac atg aaa tct gca gaa ggg agg aag aaa gcc tat ttg acc tgc 720
Tyr His Met Lys Ser Ala Glu Gly Arg Lys Ala Tyr Leu Thr Cys
225 230 235 240
agc acc cac ctc act gta gta act ttc tac tat gca cct ttt gtc tac 768
Ser Thr His Leu Thr Val Val Thr Phe Tyr Tyr Ala Pro Phe Val Tyr
245 250 255
act tat cta cgt cca aga tcc ctg cga tct cca aca gag gac aag gtt 816
Thr Tyr Leu Arg Pro Arg Ser Leu Arg Ser Pro Thr Glu Asp Lys Val
260 265 270
ctg gct gtc ttc tac acc atc ctc acc cca atg ctg aac ccc atc atc 864
Leu Ala Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Ile Ile
275 280 285
tat agc ctg agg aac aag gag gtg atg ggg gcc ctg aca cga gtg agt 912
Tyr Ser Leu Arg Asn Lys Glu Val Met Gly Ala Leu Thr Arg Val Ser
290 295 300
cag aga atc tgc tct gtg aaa atg tag 939
Gln Arg Ile Cys Ser Val Lys Met
305 310

<210> 310
<211> 312
<212> PRT
<213> Homo Sapiens

<400> 310
Met Glu Asn Tyr Asn Glu Thr Ser Thr Asp Phe Ile Leu Leu Gly Leu
1 5 10 15

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Phe Pro Pro Ser Ile Ile Asp Leu Phe Phe Phe Ile Leu Ile Val Phe
 20 25 30
 Ile Phe Leu Met Ala Leu Ile Gly Asn Leu Ser Met Ile Leu Leu Ile
 35 40 45
 Phe Leu Asp Thr His Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln
 50 55 60
 Leu Ser Leu Ile Asp Leu Asn Tyr Ile Ser Thr Ile Val Pro Lys Met
 65 70 75 80
 Ala Ser Asp Phe Leu His Gly Asn Lys Ser Ile Ser Phe Thr Gly Cys
 85 90 95
 Gly Ile Gln Ser Phe Phe Phe Leu Ala Leu Gly Gly Ala Glu Ala Leu
 100 105 110
 Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Phe Pro
 115 120 125
 Leu His Tyr Leu Ile Arg Met Ser Lys Arg Val Cys Val Leu Met Ile
 130 135 140
 Thr Gly Ser Trp Ile Ile Gly Ser Ile Asn Ala Cys Ala His Thr Val
 145 150 155 160
 Tyr Val Leu His Ile Pro Tyr Cys Arg Ser Arg Ala Ile Asn His Phe
 165 170 175
 Phe Cys Asp Val Pro Ala Met Val Thr Leu Ala Cys Met Asp Thr Trp
 180 185 190
 Val Tyr Glu Gly Thr Val Phe Leu Ser Ala Thr Ile Phe Leu Val Phe
 195 200 205
 Pro Phe Ile Gly Ile Ser Cys Ser Tyr Gly Gln Val Leu Phe Ala Val
 210 215 220
 Tyr His Met Lys Ser Ala Glu Gly Arg Lys Lys Ala Tyr Leu Thr Cys
 225 230 235 240
 Ser Thr His Leu Thr Val Val Thr Phe Tyr Tyr Ala Pro Phe Val Tyr
 245 250 255

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Thr Tyr Leu Arg Pro Arg Ser Leu Arg Ser Pro Thr Glu Asp Lys Val
 260 265 270

Leu Ala Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Ile Ile
 275 280 285

Tyr Ser Leu Arg Asn Lys Glu Val Met Gly Ala Leu Thr Arg Val Ser
 290 295 300

Glu Arg Ile Cys Ser Val Lys Met
 305 310

<210> 311
 <211> 870
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(867)
 <223>

<100> 311
 atg gaa aat ggg agc tat acc tct tat ttc att ctc cta gga ctc ttt 48
 Met Glu Asn Gly Ser Tyr Thr Ser Tyr Phe Ile Leu Leu Gly Leu Phe
 1 5 10 15
 aac cac acc aga gcc cac caa gtc ctc ttc atg atg gtt ctg agt atc 96
 Asn His Thr Arg Ala His Glu Val Leu Phe Met Met Val Leu Ser Ile
 20 25 30
 gtt ttg acc tcc ctg ttt ggc aat tcc ctc atg att ctc ctg att cac 144
 Val Leu Thr Ser Leu Phe Gly Asn Ser Leu Met Ile Leu Leu Ile His
 35 40 45
 tgg gac cac cgg ttc cac acg ccc atg tac ttc ctc ctg agc caa ctt 192
 Trp Asp His Arg Phe His Thr Pro Met Tyr Phe Leu Leu Ser Gln Leu
 50 55 60
 tcc ctc atg gac gtg atg ctg gtt tcc acc act gtg ccc aaa atg gcg 240
 Ser Leu Met Asp Val Met Leu Val Ser Thr Thr Val Pro Lys Met Ala
 65 70 75 80
 gct gac tac ttg acc gga agt aag gcc atc tcc cgc gct ggc tgt ggt 288
 Ala Asp Tyr Leu Thr Gly Ser Lys Ala Ile Ser Arg Ala Gly Cys Gly
 85 90 95
 gcg cag atc ttc ttc ctc ccc aca ctg ggt ggt gga gag tgc ttc ctc 336
 Ala Gln Ile Phe Phe Leu Pro Thr Leu Gly Gly Gly Glu Cys Phe Leu
 100 105 110
 tta gca gcc atg gcc tat gac cgc tat gcg gct gtc tgc cac cca ctc 384
 Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys His Pro Leu
 115 120 125

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cga tat ccc aot ctc atg agc tgg cag ctg tgc ctg agg atg aac ctg      432
Arg Tyr Pro Thr Leu Met Ser Trp Gln Leu Cys Leu Arg Met Asn Leu
130                      135                      140

tcg tgt tgg ctc ctg ggt gca gct gac ggg ctc ctg cag gct gtt gct      480
Ser Cys Trp Leu Leu Gly Ala Ala Asp Gly Leu Leu Gln Ala Val Ala
145                      150                      155                      160

acc ctg agc ttc cca tat tgc ggt gca cac gag atc gat cac ttc ttc      528
Thr Leu Ser Phe Pro Tyr Cys Gly Ala His Glu Ile Asp His Phe Phe
165                      170                      175

tgc gag acc ccc gtg ctg gtg cgt ttg gct tgt gct gac aot tca gtc      576
Cys Glu Thr Pro Val Leu Val Arg Leu Ala Cys Ala Asp Thr Ser Val
180                      185                      190

ttc gaa aac gcc atg tac atc tgc tgt gtg tta atg ctc ctg gtc ccc      624
Phe Glu Asn Ala Met Tyr Ile Cys Cys Val Leu Met Leu Leu Val Pro
195                      200                      205

ttt tcc ctc atc ctg tcc tcc tat ggt ctc atc ctc gct gct gtt ctg      672
Phe Ser Leu Ile Leu Ser Ser Tyr Gly Leu Ile Leu Ala Ala Val Leu
210                      215                      220

cac atg cgc tct aca gaa gcc cgc aag aag gcc ttt gcc acc tgc tot      720
His Met Arg Ser Thr Glu Ala Arg Lys Lys Ala Phe Ala Thr Cys Ser
225                      230                      235                      240

tca cat gtg gct gtg gtg gga ctc ttt tat gga gct gcc att ttt acc      768
Ser His Val Ala Val Val Gly Leu Phe Tyr Gly Ala Ala Ile Phe Thr
245                      250                      255

tat atg aga ccc aaa tcc cac agg tcc act aac cac gac aag gtt gtg      816
Tyr Met Arg Pro Lys Ser His Arg Ser Thr Asn His Asp Lys Val Val
260                      265                      270

tca gcc ttc tat act atg ttc acc cct tta cta aac ccc ctc atc tcc      864
Ser Ala Phe Tyr Thr Met Phe Thr Pro Leu Leu Asn Pro Leu Ile Tyr
275                      280                      285

agt gtg      870
Ser

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<210> 312
<211> 289
<212> PRT
<213> Homo Sapiens

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<400> 312

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Met Glu Asn Gly Ser Tyr Thr Ser Tyr Phe Ile Leu Leu Gly Leu Phe
1                      5                      10                      15

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Asn His Thr Arg Ala His Gln Val Leu Phe Met Met Val Leu Ser Ile
20                      25                      30

```

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Val Leu Thr Ser Leu Phe Gly Asn Ser Leu Met Ile Leu Leu Ile His

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35 40 45
 Trp Asp His Arg Phe His Thr Pro Met Tyr Phe Leu Leu Ser Gln Leu
 50 55 60
 Ser Leu Met Asp Val Met Leu Val Ser Thr Thr Val Pro Lys Met Ala
 65 70 75 80
 Ala Asp Tyr Leu Thr Gly Ser Lys Ala Ile Ser Arg Ala Gly Cys Gly
 85 90 95
 Ala Gln Ile Phe Phe Leu Pro Thr Leu Gly Gly Gly Glu Cys Phe Leu
 100 105 110
 Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys His Pro Leu
 115 120 125
 Arg Tyr Pro Thr Leu Met Ser Trp Gln Leu Cys Leu Arg Met Asn Leu
 130 135 140
 Ser Cys Trp Leu Leu Gly Ala Ala Asp Gly Leu Leu Gln Ala Val Ala
 145 150 155 160
 Thr Leu Ser Phe Pro Tyr Cys Gly Ala His Glu Ile Asp His Phe Phe
 165 170 175
 Cys Glu Thr Pro Val Leu Val Arg Leu Ala Cys Ala Asp Thr Ser Val
 180 185 190
 Phe Glu Asn Ala Met Tyr Ile Cys Cys Val Leu Met Leu Leu Val Pro
 195 200 205
 Phe Ser Leu Ile Leu Ser Ser Tyr Gly Leu Ile Leu Ala Ala Val Leu
 210 215 220
 His Met Arg Ser Thr Glu Ala Arg Lys Lys Ala Phe Ala Thr Cys Ser
 225 230 235 240
 Ser His Val Ala Val Val Gly Leu Phe Tyr Gly Ala Ala Ile Phe Thr
 245 250 255
 Tyr Met Arg Pro Lys Ser His Arg Ser Thr Asn His Asp Lys Val Val
 260 265 270
 Ser Ala Phe Tyr Thr Met Phe Thr Pro Leu Leu Asn Pro Leu Ile Tyr
 275 280 285

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PCT/BE01/00162

Ser

<210> 313
 <211> 957
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(954)
 <223>

<400> 313
 atg gaa tgg gaa aac cac acc att ctg gtg gaa ttt ttt ctg aag gga 48
 Met Glu Trp Glu Asn His Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
 1 5 10 15
 ctt tct ggt cac cca aga ctt gag tta ctc ttt ttt gtg ctc atc ttc 96
 Leu Ser Gly His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe
 20 25 30
 ata atg tat gtg gtc atc ctt ctg ggg aat ggt act ctc att tta atc 144
 Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
 35 40 45
 agc atc ttg gac cct cac ctt cac acc cct atg tac ttc ttt ctg ggg 192
 Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
 50 55 60
 aac ctc tcc ttc ttg gac atc tgc tac acc acc acc tct att ccc tcc 240
 Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ile Pro Ser
 65 70 75 80
 acg cta gtg agc ttc ctt tca gaa aga aag acc att tcc ctt tct ggc 288
 Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Leu Ser Gly
 85 90 95
 tgt gca gtg cag atg ttc ctc gcc ttg gcc atg ggg aca aca gag tgt 336
 Cys Ala Val Gln Met Phe Leu Gly Leu Ala Met Gly Thr Thr Glu Cys
 100 105 110
 gtg ctt ctg ggc atg atg gcc ttt gac cgc tat gtg gct atc tgc aac 384
 Val Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 cct ctg aga tat ccc atc atc atg agt aag gat gcc tat gta ccc atg 432
 Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asp Ala Tyr Val Pro Met
 130 135 140
 gca gct ggg tcc tgg atc ata gga gct gtc aat tct gca gta caa tca 480
 Ala Ala Gly Ser Trp Ile Ile Gly Ala Val Asn Ser Ala Val Gln Ser
 145 150 155 160
 gtg ttt gtg gta caa ttg cct ttc tgc agg aat aac atc atc aat cat 528
 Val Phe Val Val Gln Leu Pro Phe Cys Arg Asn Asn Ile Ile Asn His
 165 170 175

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PCT/BE01/00162

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ttc acc tgt gaa att ctg gct gtc atg aaa ctg gcc tgt gct gac atc 576
Phe Thr Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile
      180      185      190

tca gac aat gag ttc atc atg ctt gtg gcc aca aca ttg ttc ata ttg 624
Ser Asp Asn Glu Phe Ile Met Leu Val Ala Thr Thr Leu Phe Ile Leu
      195      200      205

aca cct ttg tta tta atc att gtc tct tac acg tta atc att gtg agc 672
Thr Pro Leu Leu Leu Ile Ile Val Ser Tyr Thr Leu Ile Ile Val Ser
      210      215      220

atc ttc aaa att agc tct tcc gag ggg aga agc aaa gct tcc tct acc 720
Ile Phe Lys Ile Ser Ser Ser Glu Gly Arg Ser Lys Ala Ser Ser Thr
      225      230      235      240

tgt tca gcc cat ctg act gtg gtc ata ata ttc tat ggg acc atc ctc 768
Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Leu
      245      250      255

ttc atg tac atg aag ccc aag tct aaa gag aca ctt aat tgg gat gac 816
Phe Met Tyr Met Lys Pro Lys Ser Lys Glu Thr Leu Asn Ser Asp Asp
      260      265      270

ttg gat gct acc gac aaa att ata tcc atg ttc tat ggg gtg atg act 864
Leu Asp Ala Thr Asp Lys Ile Ile Ser Met Phe Tyr Gly Val Met Thr
      275      280      285

ccc atg atg aat cct tta atc tac agt ctt aga aac aag gat gtg aaa 912
Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
      290      295      300

gag gca gta aaa cac cta ctg aac aga agg ttc ttt agc aag tga 957
Glu Ala Val Lys His Leu Leu Asn Arg Arg Phe Phe Ser Lys
      305      310      315

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<210> 314
 <211> 318
 <212> PRT
 <213> Homo Sapiens

<400> 314

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Met Glu Trp Glu Asn His Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
1      5      10      15

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Leu Ser Gly His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe
20     25     30

```

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Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
35     40     45

```

```

Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
50     55     60

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PCT/BE01/00162

Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Thr Ser Ile Pro Ser
 65 70 75 80
 Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Leu Ser Gly
 85 90 95
 Cys Ala Val Gln Met Phe Leu Gly Leu Ala Met Gly Thr Thr Glu Cys
 100 105 110
 Val Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asp Ala Tyr Val Pro Met
 130 135 140
 Ala Ala Gly Ser Trp Ile Ile Gly Ala Val Asn Ser Ala Val Gln Ser
 145 150 155 160
 Val Phe Val Val Gln Leu Pro Phe Cys Arg Asn Asn Ile Ile Asn His
 165 170 175
 Phe Thr Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile
 180 185 190
 Ser Asp Asn Glu Phe Ile Met Leu Val Ala Thr Thr Leu Phe Ile Leu
 195 200 205
 Thr Pro Leu Leu Leu Ile Ile Val Ser Tyr Thr Leu Ile Ile Val Ser
 210 215 220
 Ile Phe Lys Ile Ser Ser Ser Glu Gly Arg Ser Lys Ala Ser Ser Thr
 225 230 235 240
 Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Leu
 245 250 255
 Phe Met Tyr Met Lys Pro Lys Ser Lys Glu Thr Leu Asn Ser Asp Asp
 260 265 270
 Leu Asp Ala Thr Asp Lys Ile Ile Ser Met Phe Tyr Gly Val Met Thr
 275 280 285
 Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
 290 295 300
 Glu Ala Val Lys His Leu Leu Asn Arg Arg Phe Phe Ser Lys

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PCT/BE01/00162

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305          310          315

<210> 315
<211> 954
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(951)
<223>

<400> 315
atg ggt gag att aac cag aca ctt gtg tca gaa ttt ctt ctt ctg ggt 48
Met Gly Glu Ile Asn Gln Thr Leu Val Ser Glu Phe Leu Leu Leu Gly
1 5 10 15

ctt tct gga tac cca aag att gag att gtt tac ttt gct ctc att cta 96
Leu Ser Gly Tyr Pro Lys Ile Glu Ile Val Tyr Phe Ala Leu Ile Leu
20 25 30

gtt atg tac cta gtg att cta att ggc aat ggt gtt cta atc ata gcc 144
Val Met Tyr Leu Val Ile Leu Ile Gly Asn Gly Val Leu Ile Ile Ala
35 40 45

agc atc ttt gat tct cat ttt cac aca cca atg tac ttc ttc ctg ggc 193
Ser Ile Phe Asp Ser His Phe His Thr Pro Met Tyr Phe Phe Leu Gly
50 55 60

aac ctc tct ttc ctg gat atc tgc tat aca tcc tcc tct gtt ccc tca 240
Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ser Ser Val Pro Ser
65 70 75 80

aca ttg gtg agc tta atc tca aag aaa aga aac att tcc ttc tct gga 288
Thr Leu Val Ser Leu Ile Ser Lys Lys Arg Asn Ile Ser Phe Ser Gly
85 90 95

tgt gca gtg cag atg ttc ttt ggg ttt gca atg ggg tca aca gaa tgt 336
Cys Ala Val Gln Met Phe Phe Gly Phe Ala Met Gly Ser Thr Glu Cys
100 105 110

ctg ctt ctt ggc atg atg gca ttt gat cgt tat gtg gcc atc tgc aac 384
Leu Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
115 120 125

cca ctg aga tac ccc atc atc ctg agc aag gtg gcg tat gta ttg atg 432
Pro Leu Arg Tyr Pro Ile Ile Leu Ser Lys Val Ala Tyr Val Leu Met
130 135 140

gct tct gtg tcc tgg ctg tcc ggt gga ata aat tca gct gtg caa aca 480
Ala Ser Val Ser Trp Leu Ser Gly Gly Ile Asn Ser Ala Val Gln Thr
145 150 155 160

tta ctt gcc atg aga ctg cct ttc tgt ggg aat aat att atc aat cat 528
Leu Leu Ala Met Arg Leu Pro Phe Cys Gly Asn Asn Ile Ile Asn His
165 170 175

ttc gca tgt gaa ata tta gct gtc ctc aag ctg gcc tgt gct gat ata 576
Phe Ala Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Ile

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PCT/BE01/00162

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180          185          190
tcc ctc aat att atc acc atg gtg ata tca aat atg gcc ttc ctg gtt 624
ser leu asn ile ile thr met val ile ser asn met ala phe leu val
195          200          205

ctt cea ctg atg gtc att ttt ttc tcc tat atg ttc atc ctc tac acc 672
leu pro leu met val ile phe phe ser tyr met phe ile leu tyr thr
210          215          220

atc ttg caa atg aat tca gcc aca gga aga cgc aag gca ttt tcc acg 720
ile leu gln met asn ser ala thr gly arg arg lys ala phe ser thr
225          230          235          240

tgc tca gct cac ctg act gtg gtg atc ata ttt tac ggt acc atc ttc 768
cys ser ala his leu thr val val ile ile phe tyr gly thr ile phe
245          250          255

ttt atg tat gcg aaa ccg aag tct caa gac ctg att ggg gaa gaa aaa 816
phe met tyr ala lys pro lys ser gln asp leu ile gly glu glu lys
260          265          270

ttg caa gca tta gac aag ctc att tct ctg ttt tat ggg gta gtg aca 864
leu gln ala leu asp lys leu ile ser leu phe tyr gly val val thr
275          280          285

ccc atg ctg aat cct ata ctc tat agc ttg aga aat aag gat gta aaa 912
pro met leu asn pro ile leu tyr ser leu arg asn lys asp val lys
290          295          300

gct gct gta aaa tat ttg ctg aac aaa aaa cca att cac taa 954
ala ala val lys tyr leu leu asn lys lys pro ile his
305          310          315

<210> 316
<211> 317
<212> PRT
<213> Homo Sapiens

<400> 316
Met Gly Glu Ile Asn Gln Thr Leu Val Ser Glu Phe Leu Leu Leu Gly
1          5          10          15

Leu Ser Gly Tyr Pro Lys Ile Glu Ile Val Tyr Phe Ala Leu Ile Leu
20          25          30

Val Met Tyr Leu Val Ile Leu Ile Gly Asn Gly Val Leu Ile Ile Ala
35          40          45

Ser Ile Phe Asp Ser His Phe His Thr Pro Met Tyr Phe Phe Leu Gly
50          55          60

Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ser Ser Val Pro Ser
65          70          75          80

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Thr Leu Val Ser Leu Ile Ser Lys Lys Arg Asn Ile Ser Phe Ser Gly
 85 90 95

Cys Ala Val Gln Met Phe Phe Gly Phe Ala Met Gly Ser Thr Glu Cys
 100 105 110

Leu Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125

Pro Leu Arg Tyr Pro Ile Ile Leu Ser Lys Val Ala Tyr Val Leu Met
 130 135 140

Ala Ser Val Ser Trp Leu Ser Gly Gly Ile Asn Ser Ala Val Gln Thr
 145 150 155 160

Leu Leu Ala Met Arg Leu Pro Phe Cys Gly Asn Asn Ile Ile Asn His
 165 170 175

Phe Ala Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Ile
 180 185 190

Ser Leu Asn Ile Ile Thr Met Val Ile Ser Asn Met Ala Phe Leu Val
 195 200 205

Leu Pro Leu Met Val Ile Phe Phe Ser Tyr Met Phe Ile Leu Tyr Thr
 210 215 220

Ile Leu Gln Met Asn Ser Ala Thr Gly Arg Arg Lys Ala Phe Ser Thr
 225 230 235 240

Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Phe
 245 250 255

Phe Met Tyr Ala Lys Pro Lys Ser Gln Asp Leu Ile Gly Glu Glu Lys
 260 265 270

Leu Gln Ala Leu Asp Lys Leu Ile Ser Leu Phe Tyr Gly Val Val Thr
 275 280 285

Pro Met Leu Asn Pro Ile Leu Tyr Ser Leu Arg Asn Lys Asp Val Lys
 290 295 300

Ala Ala Val Lys Tyr Leu Leu Asn Lys Lys Pro Ile His
 305 310 315

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PCT/BE01/00162

<210> 317
 <211> 957
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(954)
 <223>

<400> 317
 atg gaa tgg gaa aac cac acc att ctg gtg gaa ttt ttt ctg aag gga 48
 Met Glu Trp Glu Asn His Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
 1 5 10 15
 ctt tct ggt cac cca aga ctt gag tta ctc ttt ttt gtg ctc atc ttc 96
 Leu Ser Gly His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe
 20 25 30
 ata atg tat gtg gtc atc ctt ctg ggg aat ggt act ctc att tta atc 144
 Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
 35 40 45
 agc atc ttg gac cct cac ctt cac acc cct atg tac ttc ttt ctg ggg 192
 Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
 50 55 60
 aac ctc tcc ttc ttg gac atc tgc tac acc acc acc tct att ccc tcc 240
 Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ile Pro Ser
 65 70 75 80
 acg cta gtg agc ttc ctt tca gaa aga aag acc att tcc ctt tct ggc 288
 Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Leu Ser Gly
 85 90 95
 tgt gca gtg cag atg ttc ctc agc ttg gcc atg ggg aca aca gag tgt 336
 Cys Ala Val Gln Met Phe Leu Ser Leu Ala Met Gly Thr Thr Glu Cys
 100 105 110
 gtg ctt ctg gcc gtg atg gcc ttt gac cgc tat gtg gct atc tgc aac 384
 Val Leu Leu Gly Val Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 cct ctg aga tat ccc atc atc atg agt aag gat gcc tat gta ccc atg 432
 Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asp Ala Tyr Val Pro Met
 130 135 140
 gca gct ggg tcc tgg atc ata gga gct gtc aat tct gca gta caa aca 480
 Ala Ala Gly Ser Trp Ile Ile Gly Ala Val Asn Ser Ala Val Gln Thr
 145 150 155 160
 gtg ttt gtg gta caa ttg cct ttc tgc agg aat aac atc atc aat cat 528
 Val Phe Val Val Gln Leu Pro Phe Cys Arg Asn Asn Ile Ile Asn His
 165 170 175
 ttc acc tgt gaa atb cta gct gtc atg aaa ctg gcc tgt gct gac atc 576
 Phe Thr Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile
 180 185 190
 tca ggc aat gag ttc atc ctg ctt gtg acc aca aca ttg ttc cta ttg 624

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Ser Gly Asn Glu Phe Ile Leu Leu Val Thr Thr Thr Leu Phe Leu Leu
 195 200 205
 aca cct ttg tta tta att att gtc tct tac acg tta atc att ttg agc 672
 Thr Pro Leu Leu Leu Ile Ile Val Ser Tyr Thr Leu Ile Ile Leu Ser
 210 215 220
 atc ttc aaä att agc tot tcy gag ggg aga agc aaa cct tcc tct acc 720
 Ile Phe Lys Ile Ser Ser Ser Glu Gly Arg Ser Lys Pro Ser Ser Thr
 225 230 235 240
 tgc tca gct cgt ctg act gtg gtg ata aca ttc tgt ggg acc atc ttc 768
 Cys Ser Ala Arg Leu Thr Val Val Ile Thr Phe Cys Gly Thr Ile Phe
 245 250 255
 ctc atg tac atg aag ccc aag tot caa gag aca ctt aat tca gat gac 816
 Leu Met Tyr Met Lys Pro Lys Ser Gln Glu Thr Leu Asn Ser Asp Asp
 260 265 270
 ttg gat gcc act gac aaa ctt ata ttc ata ttc tac agg gtg atg act 864
 Leu Asp Ala Thr Asp Lys Leu Ile Phe Ile Phe Tyr Arg Val Met Thr
 275 290 285
 ccc atg atg aat cct tta atc tac agt ctt aga aac aag gat gtg aag 912
 Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
 290 295 300
 gag gca gta aaa cac cta ctg aga aga aaa aat ttt aac aag taa 957
 Glu Ala Val Lys His Leu Leu Arg Arg Lys Asn Phe Asn Lys
 305 310 315

 <210> 318
 <211> 318
 <212> PRT
 <213> Homo Sapiens

 <400> 318
 Met Glu Trp Glu Asn His Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
 1 5 10 15
 Leu Ser Gly His Pro Arg Leu Glu Leu Phe Phe Val Leu Ile Phe
 20 25 30
 Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
 35 40 45
 Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
 50 55 60
 Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Thr Ser Ile Pro Ser
 65 70 75 80
 Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Leu Ser Gly
 85 90 95

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Cys Ala Val Gln Met Phe Leu Ser Leu Ala Met Gly Thr Thr Glu Cys
 100 105 110
 Val Leu Leu Gly Val Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asp Ala Tyr Val Pro Met
 130 135 140
 Ala Ala Gly Ser Trp Ile Ile Gly Ala Val Asn Ser Ala Val Gln Thr
 145 150 155 160
 Val Phe Val Val Gln Leu Pro Phe Cys Arg Asn Asn Ile Ile Asn His
 165 170 175
 Phe Thr Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile
 180 185 190
 Ser Gly Asn Glu Phe Ile Leu Leu Val Thr Thr Thr Leu Phe Leu Leu
 195 200 205
 Thr Pro Leu Leu Leu Ile Ile Val Ser Tyr Thr Leu Ile Ile Leu Ser
 210 215 220
 Ile Phe Lys Ile Ser Ser Ser Glu Gly Arg Ser Lys Pro Ser Ser Thr
 225 230 235 240
 Cys Ser Ala Arg Leu Thr Val Val Ile Thr Phe Cys Gly Thr Ile Phe
 245 250 255
 Leu Met Tyr Met Lys Pro Lys Ser Gln Glu Thr Leu Asn Ser Asp Asp
 260 265 270
 Leu Asp Ala Thr Asp Lys Leu Ile Phe Ile Phe Tyr Arg Val Met Thr
 275 280 285
 Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
 290 295 300
 Glu Ala Val Lys His Leu Leu Arg Arg Lys Asn Phe Asn Lys
 305 310 315
 <210> 319
 <211> 963
 <212> DNA

WO 02/24726

PCT/BE01/00162

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(960)

<223>

<400> 319

atg gaa agg acc aac gat tcc acg tcg aca gaa ttt ttc ctg gta ggg 48
 Met Glu Arg Thr Asn Asp Ser Thr Ser Thr Glu Phe Phe Leu Val Gly
 1 5 10 15

ctt tct gcc cac cca aag ctc cag aca gtt ttc ttc gtt cta att ttg 96
 Leu Ser Ala His Pro Lys Leu Gln Thr Val Phe Phe Val Leu Ile Leu
 20 25 30

tgg atg tac ctg atg atc ctg ctt gga aat gga gtc ctt atc tca gtt 144
 Trp Met Tyr Leu Met Ile Leu Leu Gly Asn Gly Val Leu Ile Ser Val
 35 40 45

atc atc ttt gat tct cac ctg cac acc ccc atg tat ttc ttc ctc tgt 192
 Ile Ile Phe Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Cys
 50 55 60

aat ctt tcc ttc ctc gac gtt tgc tac aca agt tcc tct gtc cca cta 240
 Asn Leu Ser Phe Leu Asp Val Cys Tyr Thr Ser Ser Ser Val Pro Leu
 65 70 75 80

att ctt gcc agc ttt ctg gca gta aag aaa aag gtt tcc ttc tct ggg 288
 Ile Leu Ala Ser Phe Leu Ala Val Lys Lys Lys Val Ser Phe Ser Gly
 85 90 95

tgt atg gtg caa atg ttt att tct ttt gcc atg ggg gcc acg gag tgc 336
 Cys Met Val Gln Met Phe Ile Ser Phe Ala Met Gly Ala Thr Glu Cys
 100 105 110

atg atc tta gcc acg atg gca ctg gac cgc tat gtg gcc atc tgc tac 384
 Met Ile Leu Gly Thr Met Ala Leu Asp Arg Tyr Val Ala Ile Cys Tyr
 115 120 125

cca ctg aga tac cct gtc atc atg agc aag ggt gcc tat gtg gcc atg 432
 Pro Leu Arg Tyr Pro Val Ile Met Ser Lys Gly Ala Tyr Val Ala Met
 130 135 140

gca gct ggg tcc tgg gtc act ggg ctt gtg gac tca gta gtg cag aca 480
 Ala Ala Gly Ser Trp Val Thr Gly Leu Val Asp Ser Val Val Gln Thr
 145 150 155 160

gct ttt gca atg cag tta cca ttc tgt gct aat aat gtc att aaa cat 528
 Ala Phe Ala Met Gln Leu Pro Phe Cys Ala Asn Asn Val Ile Lys His
 165 170 175

ttt gtc tgt gaa att ctg gct atc ttg aaa ctg gcc tgt gct gat att 576
 Phe Val Cys Glu Ile Leu Ala Ile Leu Lys Leu Ala Cys Ala Asp Ile
 180 185 190

tca atc aat gtg att agt atg aca ggg tcg aat ctg att gtt ctg gtt 624
 Ser Ile Asn Val Ile Ser Met Thr Gly Ser Asn Leu Ile Val Leu Val
 195 200 205

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att cca ttg tta gta att tcc atc tct tac ata ttt att gtt gcc act      672
ile pro leu leu val ile ser ile ser tyr ile phe ile val ala thr
210                215                220

att ctg agg att cct tcc act gaa gga aaa cat aag gcc ttc tcc acc      720
ile leu arg ile pro ser thr glu gly lys his lys ala phe ser thr
225                230                235                240

tgc tca gcc cac ctg aca gtg gtg att ata ttc tat gga acc atc ttc      768
cys ser ala his leu thr val val ile ile phe tyr gly thr ile phe
245                250                255

ttc atg tac gca aag cct gag tct aaa gcc tct gtt gat tca ggt aat      816
phe met tyr ala lys pro glu ser lys ala ser val asp ser gly asn
260                265                270

gaa gac atc att gag gcc etc atc tcc ctt ttc tat gga gtg atg act      864
glu asp ile ile glu ala leu ile ser leu phe tyr gly val met thr
275                280                285

ccc atg ctt aat cct etc atc tat agt ctg cga aac aag gat gta aag      912
pro met leu asn pro leu ile tyr ser leu arg asn lys asp val lys
290                295                300

gct gct gtc aaa aac ata ctg tgt agg aaa aac ttt tct gat gga aaa      960
ala ala val lys asn ile leu cys arg lys asn phe ser asp gly lys
305                310                315                320

tga                                                                963

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<210> 320
<211> 320
<212> PRT
<213> Homo Sapiens

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<400> 320

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Met Glu Arg Thr Asn Asp Ser Thr Ser Thr Glu Phe Phe Leu Val Gly
1                5                10                15

Leu Ser Ala His Pro Lys Leu Gln Thr Val Phe Phe Val Leu Ile Leu
20                25                30

Trp Met Tyr Leu Met Ile Leu Leu Gly Asn Gly Val Leu Ile Ser Val
35                40                45

Ile Ile Phe Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Cys
50                55                60

Asn Leu Ser Phe Leu Asp Val Cys Tyr Thr Ser Ser Ser Val Pro Leu
65                70                75                80

Ile Leu Ala Ser Phe Leu Ala Val Lys Lys Lys Val Ser Phe Ser Gly
85                90                95

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PCT/BE01/00162

Cys Met Val Gln Met Phe Ile Ser Phe Ala Met Gly Ala Thr Glu Cys
 100 105 110

Met Ile Leu Gly Thr Met Ala Leu Asp Arg Tyr Val Ala Ile Cys Tyr
 115 120 125

Pro Leu Arg Tyr Pro Val Ile Met Ser Lys Gly Ala Tyr Val Ala Met
 130 135 140

Ala Ala Gly Ser Trp Val Thr Gly Leu Val Asp Ser Val Val Gln Thr
 145 150 155 160

Ala Phe Ala Met Gln Leu Pro Phe Cys Ala Asn Asn Val Ile Lys His
 165 170 175

Phe Val Cys Glu Ile Leu Ala Ile Leu Lys Leu Ala Cys Ala Asp Ile
 180 185 190

Ser Ile Asn Val Ile Ser Met Thr Gly Ser Asn Leu Ile Val Leu Val
 195 200 205

Ile Pro Leu Leu Val Ile Ser Ile Ser Tyr Ile Phe Ile Val Ala Thr
 210 215 220

Ile Leu Arg Ile Pro Ser Thr Glu Gly Lys His Lys Ala Phe Ser Thr
 225 230 235 240

Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Phe
 245 250 255

Phe Met Tyr Ala Lys Pro Glu Ser Lys Ala Ser Val Asp Ser Gly Asn
 260 265 270

Glu Asp Ile Ile Glu Ala Leu Ile Ser Leu Phe Tyr Gly Val Met Thr
 275 280 285

Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
 290 295 300

Ala Ala Val Lys Asn Ile Leu Cys Arg Lys Asn Phe Ser Asp Gly Lys
 305 310 315 320

<210> 321
 <211> 960
 <212> DNA
 <213> Homo Sapiens

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<220>
<221> CDS
<222> (1) .. (957)
<223>

<400> 321
atg ttc cgg gca aat tgg ace tct gta aaa gta ttt ttc ttc ctg gga 48
Met Phe Pro Ala Asn Trp Thr Ser Val Lys Val Phe Phe Phe Leu Gly
1 5 10 15

ttt ttt cac tac ccc aaa gtt cag gtc atc ata ttt gcg gtg tgc ttg 96
Phe Phe His Tyr Pro Lys Val Gln Val Ile Ile Phe Ala Val Cys Leu
20 25 30

ctg atg tac ctg atc acc ttg ctg ggc aac att ttt ctg atc tcc atc 144
Leu Met Tyr Leu Ile Thr Leu Leu Gly Asn Ile Phe Leu Ile Ser Ile
35 40 45

acc att cta gat tcc cac ctg cac acc cct atg tcc ctc ttc ctc agc 192
Thr Ile Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
50 55 60

aat ctc tcc ttt ctg gac atc tgg cac tcc tct tct gcc ctc tct cca 240
Asn Leu Ser Phe Leu Asp Ile Trp Tyr Ser Ser Ser Ala Leu Ser Pro
65 70 75 80

atg ctg gca aac ttt gtt tca ggg aga aac act att tca ttc tca ggg 288
Met Leu Ala Asn Phe Val Ser Gly Arg Asn Thr Ile Ser Phe Ser Gly
85 90 95

tgc gcc act cag atg tac ctc tcc ctt gcc atg gcc tcc act gag tgt 336
Cys Ala Thr Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Glu Cys
100 105 110

gtg ctc ctg ccc atg atg gca tat gac cgg tat gtg gcc atc tgc aac 384
Val Leu Leu Pro Met Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115 120 125

ccc ctg aga tac cct gtc atc atg aat agg aga aac tgt gtg cag att 432
Pro Leu Arg Tyr Pro Val Ile Met Asn Arg Arg Thr Cys Val Gln Ile
130 135 140

gca gct gcc tcc tgg atg aca gcc tgt ctc act gcc atg gtg gaa atg 480
Ala Ala Gly Ser Trp Met Thr Gly Cys Leu Thr Ala Met Val Glu Met
145 150 155 160

atg tct gtg ctg cca ctg tct ctc tgt ggt aat agc atc atc aat cat 528
Met Ser Val Leu Pro Leu Ser Leu Cys Gly Asn Ser Ile Ile Asn His
165 170 175

ttc act tgt gaa att ctg gcc atc ttg aaa ttg gtt tgt gtg gac acc 576
Phe Thr Cys Glu Ile Leu Ala Ile Leu Lys Leu Val Cys Val Asp Thr
180 185 190

tcc ctg gtg cag tta atc atg ctg gtg atc agt gta ctt ctt ctc ccc 624
Ser Leu Val Gln Leu Ile Met Leu Val Ile Ser Val Leu Leu Leu Pro
195 200 205

atg cca atg cta ctc att tgt atc tct tat gca ttt atc ctc gcc agt 672

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Met Pro Met Leu Leu Ile Cys Ile Ser Tyr Ala Phe Ile Leu Ala Ser
210                215                220

atc ctg aga atc agc tca gtg gaa ggt cga agt aaa gcc ttt tca acg      720
Ile Leu Arg Ile Ser Ser Val Glu Gly Arg Ser Lys Ala Phe Ser Thr
225                230                235                240

tgc aca gcc cac ctg atg gtg gta gtt ttg ttc tat ggg acg gct ctc      768
Cys Thr Ala His Leu Met Val Val Val Leu Phe Tyr Gly Thr Ala Leu
245                250                255

tcc atg cac ctg aag ccc tcc gct gta gat tca cag gaa ata gac aaa      816
Ser Met His Leu Lys Pro Ser Ala Val Asp Ser Gln Glu Ile Asp Lys
260                265                270

ttt atg gct ttg gtg tat gcc gga caa acc ccc atg ttg aat cct atc      864
Phe Met Ala Leu Val Tyr Ala Gly Gln Thr Pro Met Leu Asn Pro Ile
275                280                285

atc tat agt cta cgg aac aaa gag gtg aaa gtg gcc ttg aaa aaa ttg      912
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Val Ala Leu Lys Lys Leu
290                295                300

ctg att aga aat cat ttt aat act gcc ttc att tcc atc ctc aaa taa      960
Leu Ile Arg Asn His Phe Asn Thr Ala Phe Ile Ser Ile Leu Lys
305                310                315

<210> 322
<211> 319
<212> PPT
<213> Homo Sapiens

<400> 322

Met Phe Pro Ala Asn Trp Thr Ser Val Lys Val Phe Phe Phe Leu Gly
1          5          10          15

Phe Phe His Tyr Pro Lys Val Gln Val Ile Ile Phe Ala Val Cys Leu
20          25          30

Leu Met Tyr Leu Ile Thr Leu Leu Gly Asn Ile Phe Leu Ile Ser Ile
35          40          45

Thr Ile Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
50          55          60

Asn Leu Ser Phe Leu Asp Ile Trp Tyr Ser Ser Ser Ala Leu Ser Pro
65          70          75          80

Met Leu Ala Asn Phe Val Ser Gly Arg Asn Thr Ile Ser Phe Ser Gly
85          90          95

Cys Ala Thr Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Glu Cys
100         105         110

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WO 02/24726

PCT/BE01/00162

Val Leu Leu Pro Met Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125

Pro Leu Arg Tyr Pro Val Ile Met Asn Arg Arg Thr Cys Val Gln Ile
 130 135 140

Ala Ala Gly Ser Trp Met Thr Gly Cys Leu Thr Ala Met Val Glu Met
 145 150 155 160

Met Ser Val Leu Pro Leu Ser Leu Cys Gly Asn Ser Ile Ile Asn His
 165 170 175

Phe Thr Cys Glu Ile Leu Ala Ile Leu Lys Leu Val Cys Val Asp Thr
 180 185 190

Ser Leu Val Glu Leu Ile Met Leu Val Ile Ser Val Leu Leu Leu Pro
 195 200 205

Met Pro Met Leu Leu Ile Cys Ile Ser Tyr Ala Phe Ile Leu Ala Ser
 210 215 220

Ile Leu Arg Ile Ser Ser Val Glu Gly Arg Ser Lys Ala Phe Ser Thr
 225 230 235 240

Cys Thr Ala His Leu Met Val Val Val Leu Phe Tyr Gly Thr Ala Leu
 245 250 255

Ser Met His Leu Lys Pro Ser Ala Val Asp Ser Gln Glu Ile Asp Lys
 260 265 270

Phe Met Ala Leu Val Tyr Ala Gly Gln Thr Pro Met Leu Asn Pro Ile
 275 280 285

Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Val Ala Leu Lys Lys Leu
 290 295 300

Leu Ile Arg Asn His Phe Asn Thr Ala Phe Ile Ser Ile Leu Lys
 305 310 315

<210> 323
 <211> 933
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS

WO 02/24726

PCT/BE01/00162

<222> (1) .. (930)

<223>

<400> 323

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aat tac aat caa tca tca act gat ttc atc tta tta gga ttc ttc cca      48
Asn Tyr Asn Gln Ser Ser Thr Asp Phe Ile Leu Leu Gly Phe Phe Pro
1      5      10      15

cca tca aga att ggc ctt ttc ctc ttc atc ctc att gtt ttc att ttc      96
Pro Ser Arg Ile Gly Leu Phe Leu Phe Ile Leu Ile Val Phe Ile Phe
20      25      30

cta atg gct cta att gga aac cta tcc atg att ctt ctc atc ttc ttg      144
Leu Met Ala Leu Ile Gly Asn Leu Ser Met Ile Leu Leu Ile Phe Leu
35      40      45

gac acc cat ctc cgc aca ccc atg tat ttc cta ctt agt cag ctc tcc      192
Asp Thr His Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln Leu Ser
50      55      60

ctc att gac cta aat tac atc tcc acc att gtt cct aag atg gca tct      240
Leu Ile Asp Leu Asn Tyr Ile Ser Thr Ile Val Pro Lys Met Ala Ser
65      70      75      80

gat ttt ctg tct ggt aac aag tct atc tcc ttc act ggg tgt ggg att      288
Asp Phe Leu Ser Gly Asn Lys Ser Ile Ser Phe Thr Gly Cys Gly Ile
85      90      95

cag agt ttc ttc ttc tgc gca tta gga ggt gca gaa gca cta ctt ttg      336
Gln Ser Phe Phe Phe Ser Ala Leu Gly Gly Ala Glu Ala Leu Leu Leu
100      105      110

gca tct atg gcc tat gat cgt tac att gct att tgc ttt cct ctt cac      384
Ala Ser Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Phe Pro Leu His
115      120      125

tat ccc atc cgc atg agc aaa aga atg tgt gtg ctg atg ata aca ggg      432
Tyr Pro Ile Arg Met Ser Lys Arg Met Cys Val Leu Met Ile Thr Gly
130      135      140

tot tgg atc ata ggc tgc atc aat gct tgg gct cac act gta tat gta      480
Ser Trp Ile Ile Gly Ser Ile Asn Ala Cys Ala His Thr Val Tyr Val
145      150      155      160

ctc cat att cct tat tgc caa tcc agy gcc atc aat cat ttc ttc tgt      528
Leu His Ile Pro Tyr Cys Gln Ser Arg Ala Ile Asn His Phe Phe Cys
165      170      175

gat gtc cca gca atg gtg act ctg gcc tgc atg gac acc tgg gtc tat      576
Asp Val Pro Ala Met Val Thr Leu Ala Cys Met Asp Thr Trp Val Tyr
180      185      190

gag ggc aca gtg ttt ttg agc acc acc atc ttt ctc gtg ttt ccc ttc      624
Glu Gly Thr Val Phe Leu Ser Thr Thr Ile Phe Leu Val Phe Pro Phe
195      200      205

att gct att tca tgt tcc tat ggc cgg gtt ctc ctt gct gtc tac cac      672
Ile Ala Ile Ser Cys Ser Tyr Gly Arg Val Leu Leu Ala Val Tyr His
210      215      220

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atg aaa tct gca gaa ggg agg aag aaa gcc tac ctg acc tgc agc acc      720
Met Lys Ser Ala Glu Gly Arg Lys Lys Ala Tyr Leu Thr Cys Ser Thr
225                230                235                240

cac ctg act gta gta act ttc tac tat gca cct ttt gtc tac act tat      758
His Leu Thr Val Val Thr Phe Tyr Tyr Ala Pro Phe Val Tyr Thr Tyr
245                250                255

cta cgt cca aga tcc ctg cga tct cca aca gag gac aag gtt ctg gct      816
Leu Arg Pro Arg Ser Leu Arg Ser Pro Thr Glu Asp Lys Val Leu Ala
260                265                270

gtc ttc tac acc atc ctg acc cca atg ctg aac ccc atc atc tat agc      864
Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser
275                280                285

ctg agg aac aag gag gtg atg ggg gcc ctg aca cga gtg agt cag aga      912
Leu Arg Asn Lys Glu Val Met Gly Ala Leu Thr Arg Val Ser Gln Arg
290                295                300

atc tgc tct gtg aaa atg tag      933
Ile Cys Ser Val Lys Met
305                310

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<210> 324

<211> 310

<212> FRT

<213> Homo Sapiens

<400> 324

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Asn Tyr Asn Gln Ser Ser Thr Asp Phe Ile Leu Leu Gly Phe Phe Pro
1                5                10                15

```

```

Pro Ser Arg Ile Gly Leu Phe Leu Phe Ile Leu Ile Val Phe Ile Phe
20                25                30

```

```

Leu Met Ala Leu Ile Gly Asn Leu Ser Met Ile Leu Leu Ile Phe Leu
35                40                45

```

```

Asp Thr His Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln Leu Ser
50                55                60

```

```

Leu Ile Asp Leu Asn Tyr Ile Ser Thr Ile Val Pro Lys Met Ala Ser
65                70                75                80

```

```

Asp Phe Leu Ser Gly Asn Lys Ser Ile Ser Phe Thr Gly Cys Gly Ile
85                90                95

```

```

Gln Ser Phe Phe Phe Ser Ala Leu Gly Gly Ala Glu Ala Leu Leu Leu
100                105                110

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Ala Ser Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Phe Pro Leu His

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115 120 125
 Tyr Pro Ile Arg Met Ser Lys Arg Met Cys Val Leu Met Ile Thr Gly
 130 135 140
 Ser Trp Ile Ile Gly Ser Ile Asn Ala Cys Ala His Thr Val Tyr Val
 145 150 155 160
 Leu His Ile Pro Tyr Cys Gln Ser Arg Ala Ile Asn His Phe Phe Cys
 165 170 175
 Asp Val Pro Ala Met Val Thr Leu Ala Cys Met Asp Thr Trp Val Tyr
 180 185 190
 Glu Gly Thr Val Phe Leu Ser Thr Thr Ile Phe Leu Val Phe Pro Phe
 195 200 205
 Ile Ala Ile Ser Cys Ser Tyr Gly Arg Val Leu Leu Ala Val Tyr His
 210 215 220
 Met Lys Ser Ala Glu Gly Arg Lys Lys Ala Tyr Leu Thr Cys Ser Thr
 225 230 235 240
 His Leu Thr Val Val Thr Phe Tyr Tyr Ala Pro Phe Val Tyr Thr Tyr
 245 250 255
 Leu Arg Pro Arg Ser Leu Arg Ser Pro Thr Glu Asp Lys Val Leu Ala
 260 265 270
 Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser
 275 280 285
 Leu Arg Asn Lys Glu Val Met Gly Ala Leu Thr Arg Val Ser Gln Arg
 290 295 300
 Ile Cys Ser Val Lys Met
 305 310
 <210> 325
 <211> 930
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(927)
 <223>

WO 02/24726

PCT/BE01/00162

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<400> 325
atg gga ttg ggc aat gag agt tcc cta atg gat ttc atc ctt cta ggc 48
Met Gly Leu Gly Asn Glu Ser Ser Leu Met Asp Phe Ile Leu Leu Gly
1 5 10 15

ttc tca gac cac cct cgt ctg gag gct gtt ctc ttt gta ttt gtc ctt 96
Phe Ser Asp His Pro Arg Leu Glu Ala Val Leu Phe Val Phe Val Leu
20 25 30

ttc ttc tac ctc ctg acc ctt gtg gga aac ttc acc ata atc atc atc 144
Phe Phe Tyr Leu Leu Thr Leu Val Gly Asn Phe Thr Ile Ile Ile Ile
35 40 45

tca tat ctg gat ccc cct ctt cat acc cca atg tac ttt ttt ctc agc 192
Ser Tyr Leu Asp Pro Pro Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50 55 60

aac ctc tct tta ctg gac atc tgc ttc act act agc ctt gct cct cag 240
Asn Leu Ser Leu Leu Asp Ile Cys Phe Thr Thr Ser Leu Ala Pro Gln
65 70 75 80

acc tta gtt aac ttg cca aga cca aag aag acg atc act tac ggt ggt 288
Thr Leu Val Asn Leu Gln Arg Pro Lys Lys Thr Ile Thr Tyr Gly Gly
85 90 95

tgt gtg gcg caa ctc tat att tct ctg gca ctg ggc tcc act gaa tgt 336
Cys Val Ala Gln Leu Tyr Ile Ser Leu Ala Leu Gly Ser Thr Glu Cys
100 105 110

atc ctc ttg gct gac atg gcc ttg gat cgg tac att gct gtc tgc aaa 384
Ile Leu Leu Ala Asp Met Ala Leu Asp Arg Tyr Ile Ala Val Cys Lys
115 120 125

ccc ctc cac tat gta gtc atc atg aac cca cgg ctt tgc caa cag ctg 432
Pro Leu His Tyr Val Val Ile Met Asn Pro Arg Leu Cys Gln Gln Leu
130 135 140

gca tct atc tcc tgg ctc agt ggt ttg gct agt tcc cta atc cat gca 480
Ala Ser Ile Ser Trp Leu Ser Gly Leu Ala Ser Ser Leu Ile His Ala
145 150 155 160

act ttt acc ttg caa ttg cct ctc tgt ggc aac cat agg ctg gac cat 528
Thr Phe Thr Leu Gln Leu Pro Leu Cys Gly Asn His Arg Leu Asp His
165 170 175

ttt att tgc gaa gta cca gct ctt ctc aag ttg gct tgt gtg gac acc 576
Phe Ile Cys Glu Val Pro Ala Leu Leu Lys Leu Ala Cys Val Asp Thr
180 185 190

act gtc aat gaa ttg gtg ctt ttt gtt gtt agt gtt ctg ttt gtt gtc 624
Thr Val Asn Glu Leu Val Leu Phe Val Val Ser Val Leu Phe Val Val
195 200 205

att cca cca gca ctc atc tcc atc tcc tat ggc ttc ata act caa gct 672
Ile Pro Pro Ala Leu Ile Ser Ile Ser Tyr Gly Phe Ile Thr Gln Ala
210 215 220

gtg ctg agg atc aaa tca gta gag gca agg cat aaa gcc ttc agc acc 720
Val Leu Arg Ile Lys Ser Val Glu Ala Arg His Lys Ala Phe Ser Thr
225 230 235 240

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tgc tcc tcc cac ctt aca gtg gtg att ata ttc tat ggc acc ata atc 768
 Cys Ser Ser His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Ile
 245 250 255
 tac gtg tac ctg caa cct agt gac ago tat gcc cag gac caa ggg aag 816
 Tyr Val Tyr Leu Gln Pro Ser Asp Ser Tyr Ala Gln Asp Gln Gly Lys
 260 265 270
 ttt atc tcc ctc ttc tac acc atg gtg acc ccc act tta aat cct atc 864
 Phe Ile Ser Leu Phe Tyr Thr Met Val Thr Pro Thr Leu Asn Pro Ile
 275 280 285
 atc tat act tta agg aac aag gat atg aaa gag gct ctg agg aaa ctt 912
 Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys Glu Ala Leu Arg Lys Leu
 290 295 300
 ctc tcg gga aaa ttg tga 930
 Leu Ser Gly Lys Leu
 305

<210> 326
 <211> 309
 <212> PRT
 <213> Homo Sapiens

<400> 326

Met Gly Leu Gly Asn Glu Ser Ser Leu Met Asp Phe Ile Leu Leu Gly
 1 5 10 15
 Phe Ser Asp His Pro Arg Leu Glu Ala Val Leu Phe Val Phe Val Leu
 20 25 30
 Phe Phe Tyr Leu Leu Thr Leu Val Gly Asn Phe Thr Ile Ile Ile Ile
 35 40 45
 Ser Tyr Leu Asp Pro Pro Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Leu Leu Asp Ile Cys Phe Thr Thr Ser Leu Ala Pro Gln
 65 70 75 80
 Thr Leu Val Asn Leu Gln Arg Pro Lys Lys Thr Ile Thr Tyr Gly Gly
 85 90 95
 Cys Val Ala Gln Leu Tyr Ile Ser Leu Ala Leu Gly Ser Thr Glu Cys
 100 105 110
 Ile Leu Leu Ala Asp Met Ala Leu Asp Arg Tyr Ile Ala Val Cys Lys
 115 120 125

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PCT/BE01/00162

Pro Leu His Tyr Val Val Ile Met Asn Pro Arg Leu Cys Gln Gln Leu
130 135 140

Ala Ser Ile Ser Trp Leu Ser Gly Leu Ala Ser Ser Leu Ile His Ala
145 150 155 160

Thr Phe Thr Leu Gln Leu Pro Leu Cys Gly Asn His Arg Leu Asp His
165 170 175

Phe Ile Cys Glu Val Pro Ala Leu Leu Lys Leu Ala Cys Val Asp Thr
180 185 190

Thr Val Asn Glu Leu Val Leu Phe Val Val Ser Val Leu Phe Val Val
195 200 205

Ile Pro Pro Ala Leu Ile Ser Ile Ser Tyr Gly Phe Ile Thr Gln Ala
210 215 220

Val Leu Arg Ile Lys Ser Val Glu Ala Arg His Lys Ala Phe Ser Thr
225 230 235 240

Cys Ser Ser His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Ile
245 250 255

Tyr Val Tyr Leu Gln Pro Ser Asp Ser Tyr Ala Gln Asp Gln Gly Lys
260 265 270

Phe Ile Ser Leu Phe Tyr Thr Met Val Thr Pro Thr Leu Asn Pro Ile
275 280 285

Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys Glu Ala Leu Arg Lys Leu
290 295 300

Leu Ser Gly Lys Leu
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<211> 954
<212> DNA
<213> Homo Sapiens

<220>
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<222> (1)..(951)
<223>

<400> 327
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Met Gly Met Val Arg His Thr Asn Glu Ser Asn Leu Ala Gly Phe Ile	
1 5 10 15	
ctt tta ggg ttt tot gat tat oot cag tta cag aag gtt cta ttt gtg	96
Leu Leu Gly Phe Ser Asp Tyr Pro Gln Leu Gln Lys Val Leu Phe Val	
20 25 30	
ctc ata ttg att ctg tat tta cta act att ttg ggg aat acc acc atc	144
Leu Ile Leu Ile Leu Tyr Leu Leu Thr Ile Leu Gly Asn Thr Thr Ile	
35 40 45	
att ctg gtt tot ogt ctg gaa ooc aag ctt cat atg cag atg tat ttc	192
Ile Leu Val Ser Arg Leu Glu Pro Lys Leu His Met Pro Met Tyr Phe	
50 55 60	
ttc ctt tct cat ctc tcc ttc ctg tac cgc tgc ttc acc agc agt gtt	240
Phe Leu Ser His Leu Ser Phe Leu Tyr Arg Cys Phe Thr Ser Ser Val	
65 70 75 80	
att ooc cag ctc ctg gta aac ctg tgg gaa ooc atg aaa act atc gcc	288
Ile Pro Gln Leu Leu Val Asn Leu Trp Glu Pro Met Lys Thr Ile Ala	
85 90 95	
tat ggt ggc tgt ttg gtt cac ctt tac aac tcc oot gcc ctg gga tcc	336
Tyr Gly Gly Cys Leu Val His Leu Tyr Asn Ser His Ala Leu Gly Ser	
100 105 110	
act gag tgc gtc ctc cag gct ctg atg tcc tgt gac cgc tat gtg gct	384
Thr Glu Cys Val Leu Pro Ala Leu Met Ser Cys Asp Arg Tyr Val Ala	
115 120 125	
gtc tgc cgt cct ctc cat tac act gtc tta atg cat atc cat ctc tgc	432
Val Cys Arg Pro Leu His Tyr Thr Val Leu Met His Ile His Leu Cys	
130 135 140	
atg gcc ttg gca tct atg gca tgg ctc agt gga ata gcc acc acc ctg	480
Met Ala Leu Ala Ser Met Ala Trp Leu Ser Gly Ile Ala Thr Thr Leu	
145 150 155 160	
gta cag tcc acc ctc acc ctg cag ctg ccc ttc tgt ggg cat cgc caa	528
Val Gln Ser Thr Leu Thr Leu Gln Leu Pro Phe Cys Gly His Arg Gln	
165 170 175	
gtg gat cat ttc atc tgc gag gtc oot gtg ctc atc aag ctg gct tgt	576
Val Asp His Phe Ile Cys Glu Val Pro Val Leu Ile Lys Leu Ala Cys	
180 185 190	
gtg ggc acc acg ttt aac gag gct gag ctt ttt gtg gct agt atc ctt	624
Val Gly Thr Thr Phe Asn Glu Ala Glu Leu Phe Val Ala Ser Ile Leu	
195 200 205	
ttc ctt ata gtg oot gtc tca ttc atc ctg gtc tcc tot ggc tac att	672
Phe Leu Ile Val Pro Val Ser Phe Ile Leu Val Ser Ser Gly Tyr Ile	
210 215 220	
gcc cac gca gtg ttg agg att aag tca gct acc agg aga cag aaa gca	720
Ala His Ala Val Leu Arg Ile Lys Ser Ala Thr Arg Arg Gln Lys Ala	
225 230 235 240	
ttc ggg acc tgc ttc tcc cac ctg aca gtg gtc acc atc ttt tat gga	768
Phe Gly Thr Cys Phe Ser His Leu Thr Val Val Thr Ile Phe Tyr Gly	

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                245                250                255
acc atc atc ttc atg tat ctg cag cca gcc aag agt aga tcc agg gac      816
Thr Ile Ile Phe Met Tyr Leu Gln Pro Ala Lys Ser Arg Ser Arg Asp
                260                265                270

cag ggc aag ttt gtt tct ctg ttc tac act gtg gta acc cgc atg ctt      864
Gln Gly Lys Phe Val Ser Leu Phe Tyr Thr Val Val Thr Arg Met Leu
                275                280                285

aac cct ctt att tat acc ttg agy atc aag gag gtg aaa ggg gca tta      912
Asn Pro Leu Ile Tyr Thr Leu Arg Ile Lys Glu Val Lys Gly Ala Leu
                290                295                300

aag aaa gtt cta gca aag gct ctg gga gta aat att tta tga      954
Lys Lys Val Leu Ala Lys Ala Leu Gly Val Asn Ile Leu
305                310                315

<210> 328
<211> 317
<212> PRT
<213> Homo Sapiens

<400> 328
Met Gly Met Val Arg His Thr Asn Glu Ser Asn Leu Ala Gly Phe Ile
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Leu Leu Gly Phe Ser Asp Tyr Pro Gln Leu Gln Lys Val Leu Phe Val
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Leu Ile Leu Ile Leu Tyr Leu Leu Thr Ile Leu Gly Asn Thr Thr Ile
35                40                45

Ile Leu Val Ser Arg Leu Glu Pro Lys Leu His Met Pro Met Tyr Phe
50                55                60

Phe Leu Ser His Leu Ser Phe Leu Tyr Arg Cys Phe Thr Ser Ser Val
65                70                75                80

Ile Pro Gln Leu Leu Val Asn Leu Trp Glu Pro Met Lys Thr Ile Ala
85                90                95

Tyr Gly Gly Cys Leu Val His Leu Tyr Asn Ser His Ala Leu Gly Ser
100               105               110

Thr Glu Cys Val Leu Pro Ala Leu Met Ser Cys Asp Arg Tyr Val Ala
115               120               125

Val Cys Arg Pro Leu His Tyr Thr Val Leu Met His Ile His Leu Cys
130               135               140

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Met Ala Leu Ala Ser Met Ala Trp Leu Ser Gly Ile Ala Thr Thr Leu
 145 150 155 160

Val Gln Ser Thr Leu Thr Leu Gln Leu Pro Phe Cys Gly His Arg Gln
 165 170 175

Val Asp His Phe Ile Cys Glu Val Pro Val Leu Ile Lys Leu Ala Cys
 180 185 190

Val Gly Thr Thr Phe Asn Glu Ala Glu Leu Phe Val Ala Ser Ile Leu
 195 200 205

Phe Leu Ile Val Pro Val Ser Phe Ile Leu Val Ser Ser Gly Tyr Ile
 210 215 220

Ala His Ala Val Leu Arg Ile Lys Ser Ala Thr Arg Arg Gln Lys Ala
 225 230 235 240

Phe Gly Thr Cys Phe Ser His Leu Thr Val Val Thr Ile Phe Tyr Gly
 245 250 255

Thr Ile Ile Phe Met Tyr Leu Gln Pro Ala Lys Ser Arg Ser Arg Asp
 260 265 270

Gln Gly Lys Phe Val Ser Leu Phe Tyr Thr Val Val Thr Arg Met Leu
 275 280 285

Asn Pro Leu Ile Tyr Thr Leu Arg Ile Lys Glu Val Lys Gly Ala Leu
 290 295 300

Lys Lys Val Leu Ala Lys Ala Leu Gly Val Asn Ile Leu
 305 310 315

<210> 329
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<400> 329
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 Met Asp Thr Gly Asn Lys Thr Leu Pro Gln Asp Phe Leu Leu Leu Gly
 1 5 10 15

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ttt cct ggt tct caa act ctt cag ctc tct ctc ttt atg ctt ttt ctg Phe Pro Gly Ser Gln Thr Leu Gln Leu Ser Leu Phe Met Leu Phe Leu 20 25 30	96
gtg atg tac atc ctc aca gtt agt ggt aat gtg gct atc ttg atg ttg Val Met Tyr Ile Leu Thr Val Ser Gly Asn Val Ala Ile Leu Met Leu 35 40 45	144
gtg agc acc tcc cat cag ttg cat acc ccc atg tac ttc ttt ctg agc Val Ser Thr Ser His Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser 50 55 60	192
aac ctc tcc ttc ctg gag att tgg tat acc aca gca gca gtg ccc aaa Asn Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Ala Val Pro Lys 65 70 75 80	240
gca ctg gcc atc cta ctg ggg aga agt cag acc ata tca ttt aca ago Ala Leu Ala Ile Leu Leu Gly Arg Ser Gln Thr Ile Ser Phe Thr Ser 85 90 95	288
tgt ctt ttg cag atg tac ttt gtt ttc tca tta ggc tgc aca gag tac Cys Leu Leu Glu Met Tyr Phe Val Phe Ser Leu Gly Cys Thr Glu Tyr 100 105 110	336
ttc ctc ctg gca gcc atg gct tat gac cgc tgt ctt gcc atc tgc tat Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Cys Leu Ala Ile Cys Tyr 115 120 125	384
cct tta cac tac gga gcc atc atg agt agc ctg ctc tca ggc cag ctg Pro Leu His Tyr Gly Ala Ile Met Ser Ser Leu Leu Ser Ala Gln Leu 130 135 140	432
gcc ctg ggc tcc tgg gtg tgt ggt ttc gtg gcc att gca gtg ccc aca Ala Leu Gly Ser Trp Val Cys Gly Phe Val Ala Ile Ala Val Pro Thr 145 150 155	480
gcc ctc atc agt ggc ctg tcc ttc tgt gcc ccc cgt gcc atc aac cac Ala Leu Ile Ser Gly Leu Ser Phe Cys Gly Pro Arg Ala Ile Asn His 165 170 175	528
ttc ttc tgt gac att gca ccc tgg att gcc ctg gcc tgc acc aac aca Phe Phe Cys Asp Ile Ala Pro Trp Ile Ala Leu Ala Cys Thr Asn Thr 180 185 190	576
cag gca gta gag ctt gtg gcc ttt gtg att gct gtt gtg gtt atc ctg Gln Ala Val Glu Leu Val Ala Phe Val Ile Ala Val Val Val Ile Leu 195 200 205	624
agt tca tgc ctc atc acc ttt gtc tcc tat gtg tac atc atc agc acc Ser Ser Cys Leu Ile Thr Phe Val Ser Tyr Val Tyr Ile Ile Ser Thr 210 215 220	672
atc ctc agg atc ccc tct gcc agt ggc cgg agc aaa gcc ttc tcc acg Ile Leu Arg Ile Pro Ser Ala Ser Gly Arg Ser Lys Ala Phe Ser Thr 225 230 235 240	720
tgc tcc tgg cat ctc acc gtg gtg ctc att tgg tat ggg tcc aca gtt Cys Ser Ser His Leu Thr Val Val Leu Ile Trp Tyr Gly Ser Thr Val 245 250 255	768
ttc ctt cac gtc cgc acc tct atc aaa gat gcc ttg gat ctg atc aaa	816

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Phe Leu His Val Arg Thr Ser Ile Lys Asp Ala Leu Asp Leu Ile Lys
 260 265 270
 gct gtc cac gtc ctg aac act gtg gtg act cca gtt tta aac ccc ttc 864
 Ala Val His Val Leu Asn Thr Val Val Thr Pro Val Leu Asn Pro Phe
 275 280 285
 atc tat aag ctt cgt aat aag gaa gta aga gag act ctg ctg aag aaa 912
 Ile Tyr Thr Leu Arg Asn Lys Glu Val Arg Glu Thr Leu Leu Lys Lys
 290 295 300
 tgg aag gga aaa taa 927
 Trp Lys Gly Lys
 305
 <210> 330
 <211> 308
 <212> PRT
 <213> Homo Sapiens
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 Met Asp Thr Gly Asn Lys Thr Leu Pro Gln Asp Phe Leu Leu Leu Gly
 1 5 10 15
 Phe Pro Gly Ser Gln Thr Leu Gln Leu Ser Leu Phe Met Leu Phe Leu
 20 25 30
 Val Met Tyr Ile Leu Thr Val Ser Gly Asn Val Ala Ile Leu Met Leu
 35 40 45
 Val Ser Thr Ser His Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Ala Val Pro Lys
 65 70 75 80
 Ala Leu Ala Ile Leu Leu Gly Arg Ser Gln Thr Ile Ser Phe Thr Ser
 85 90 95
 Cys Leu Leu Gln Met Tyr Phe Val Phe Ser Leu Gly Cys Thr Glu Tyr
 100 105 110
 Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Cys Leu Ala Ile Cys Tyr
 115 120 125
 Pro Leu His Tyr Gly Ala Ile Met Ser Ser Leu Leu Ser Ala Gln Leu
 130 135 140
 Ala Leu Gly Ser Trp Val Cys Gly Phe Val Ala Ile Ala Val Pro Thr
 145 150 155 160

WO 02/24726

PCT/BE01/00162

Ala Leu Ile Ser Gly Leu Ser Phe Cys Gly Pro Arg Ala Ile Asn His
165 170 175

Phe Phe Cys Asp Ile Ala Pro Trp Ile Ala Leu Ala Cys Thr Asn Thr
180 185 190

Gln Ala Val Glu Leu Val Ala Phe Val Ile Ala Val Val Val Ile Leu
195 200 205

Ser Ser Cys Leu Ile Thr Phe Val Ser Tyr Val Tyr Ile Ile Ser Thr
210 215 220

Ile Leu Arg Ile Pro Ser Ala Ser Gly Arg Ser Lys Ala Phe Ser Thr
225 230 235 240

Cys Ser Ser His Leu Thr Val Val Leu Ile Trp Tyr Gly Ser Thr Val
245 250 255

Phe Leu His Val Arg Thr Ser Ile Lys Asp Ala Leu Asp Leu Ile Lys
260 265 270

Ala Val His Val Leu Asn Thr Val Val Thr Pro Val Leu Asn Pro Phe
275 280 285

Ile Tyr Thr Leu Arg Asn Lys Glu Val Arg Glu Thr Leu Leu Lys Lys
290 295 300

Trp Lys Gly Lys
305

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1 5 10 15
ttc aac aga aag gaa acc tca ggt ctt att ttt gcc atc atc tct atc 96
Phe Asn Arg Lys Glu Thr Ser Gly Leu Ile Phe Ala Ile Ile Ser Ile
20 25 30

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atc ttc ttc acc gca ctg atg gcc aat ggg gtt atg atc ttc ctg atc      144
Ile Phe Phe Thr Ala Leu Met Ala Asn Gly Val Met Ile Phe Leu Ile
    35              40              45

caa aca gat ttg cgc ctt oat aca ccc atg tac ttc ctc ctc agc cac      192
Gln Thr Asp Leu Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser His
    50              55              60

ctt tcc tta att gac atg atg tat att tcc act att gtg cct aag atg      240
Leu Ser Leu Ile Asp Met Met Tyr Ile Ser Thr Ile Val Pro Lys Met
    65              70              75              80

ctg gtt aat tac ctg ctg gat caa agg acc att tcc ttt gtg ggg tgc      288
Leu Val Asn Tyr Leu Leu Asp Gln Arg Thr Ile Ser Phe Val Gly Cys
    85              90              95

aca gct caa cac ttc ctc tac ctt acc ctt gtg gga gct gaa ttc ttc      336
Thr Ala Gln His Phe Leu Tyr Leu Thr Leu Val Gly Ala Glu Phe Phe
    100             105             110

ctg ctg ggc ctc atg gcc tat gac cgc tat gtg gcc att tgc aac cct      384
Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
    115             120             125

ctg aga tac cct gtc ctc atg agc cgc cgg gtc tgt tgg atg att ata      432
Leu Arg Tyr Pro Val Leu Met Ser Arg Arg Val Cys Trp Met Ile Ile
    130             135             140

gca ggt tcc tgg ttt ggg ggc tot ttg gat ggc ttc ctc cta acc ccc      480
Ala Gly Ser Trp Phe Gly Gly Ser Leu Asp Gly Phe Leu Leu Thr Pro
    145             150             155             160

atc acc atg agc ttt ccc ttc tgc aat tcc cgg gag att aac cac ttc      538
Ile Thr Met Ser Phe Pro Phe Cys Asn Ser Arg Glu Ile Asn His Phe
    165             170             175

ttc tgt gag gca cca gca gtc ctg aag ttg gca tgt gca gac ada gcc      576
Phe Cys Glu Ala Pro Ala Val Leu Lys Leu Ala Cys Ala Asp Thr Ala
    180             185             190

ctc tac gag aca gtg atg tat gtg tgc tgt gtt ttg atg ctg ctg att      624
Leu Tyr Glu Thr Val Met Tyr Val Cys Cys Val Leu Met Leu Leu Ile
    195             200             205

cct ttc tct gta gtc ctt got tcc tat gcc cga atc ctg act aca gtt      672
Pro Phe Ser Val Val Leu Ala Ser Tyr Ala Arg Ile Leu Thr Thr Val
    210             215             220

cag tgc atg agc tca gtg gag ggc agg aag aag gca ttt gcc act tgc      720
Gln Cys Met Ser Ser Val Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys
    225             230             235             240

tca tcc cac atg act gtg gtg tcc ttg ttc tac ggg gct gcc atg tac      768
Ser Ser His Met Thr Val Val Ser Leu Phe Tyr Gly Ala Ala Met Tyr
    245             250             255

acc tac atg ctg cca cat tct tac cac aag cca gcc cag gac aaa gtc      816
Thr Tyr Met Leu Pro His Ser Tyr His Lys Pro Ala Gln Asp Lys Val
    260             265             270

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ctc tct gtc ttt tac acc att ctc aca ccc atg ctg aac ccc ctc atc      864
Leu Ser Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Leu Ile
275                280                285

tac agc ctt aga aac aag gat gtc act gga gct ctg aag agg gcc ttg      912
Tyr Ser Leu Arg Asn Lys Asp Val Thr Gly Ala Leu Lys Arg Ala Leu
290                295                300

ggg agg ttc aag ggt cct caa agg gtc tca gga ggt gtc ttt tga      957
Gly Arg Phe Lys Gly Pro Gln Arg Val Ser Gly Gly Val Phe
305                310                315

<210> 332
<211> 318
<212> PRT
<213> Homo Sapiens

<400> 332
Met Glu Glu Tyr Asn Thr Ser Ser Thr Asp Phe Thr Phe Met Gly Leu
1                5                10                15

Phe Asn Arg Lys Glu Thr Ser Gly Leu Ile Phe Ala Ile Ile Ser Ile
30                25                30

Ile Phe Phe Thr Ala Leu Met Ala Asn Gly Val Met Ile Phe Leu Ile
35                40                45

Gln Thr Asp Leu Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser His
50                55                60

Leu Ser Leu Ile Asp Met Met Tyr Ile Ser Thr Ile Val Pro Lys Met
65                70                75                80

Leu Val Asn Tyr Leu Leu Asp Gln Arg Thr Ile Ser Phe Val Gly Cys
85                90                95

Thr Ala Gln His Phe Leu Tyr Leu Thr Leu Val Gly Ala Glu Phe Phe
100               105               110

Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
115               120               125

Leu Arg Tyr Pro Val Leu Met Ser Arg Arg Val Cys Trp Met Ile Ile
130               135               140

Ala Gly Ser Trp Phe Gly Gly Ser Leu Asp Gly Phe Leu Leu Thr Pro
145               150               155               160

Ile Thr Met Ser Phe Pro Phe Cys Asn Ser Arg Glu Ile Asn His Phe

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165 170 175

Phe Cys Glu Ala Pro Ala Val Leu Lys Leu Ala Cys Ala Asp Thr Ala
180 185 190

Leu Tyr Glu Thr Val Met Tyr Val Cys Cys Val Leu Met Leu Leu Ile
195 200 205

Pro Phe Ser Val Val Leu Ala Ser Tyr Ala Arg Ile Leu Thr Thr Val
210 215 220

Gln Cys Met Ser Ser Val Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys
225 230 235 240

Ser Ser His Met Thr Val Val Ser Leu Phe Tyr Gly Ala Ala Met Tyr
245 250 255

Thr Tyr Met Leu Pro His Ser Tyr His Lys Pro Ala Gln Asp Lys Val
260 265 270

Leu Ser Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Leu Ile
275 280 285

Tyr Ser Leu Arg Asn Lys Asp Val Thr Gly Ala Leu Lys Arg Ala Leu
290 295 300

Gly Arg Phe Lys Gly Pro Gln Arg Val Ser Gly Gly Val Phe
305 310 315

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1 5 10 15

ggc ctc atc acc cat cct gcc ttc ccc ggg ctt ctc ttt gca ata gtc 96
Gly Leu Ile Thr His Pro Ala Phe Pro Gly Leu Leu Phe Ala Ile Val
20 25 30

ttc tcc atc ttt gtg gtg gct ata aca gcc aac ttg gtc atg att ctg 144
Phe Ser Ile Phe Val Val Ala Ile Thr Ala Asn Leu Val Met Ile Leu

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35	40	45	
ctc atc cac atg gac tcc cgc ctc cac aca ccc atg tac ttc ttg ctc			192
Leu Ile His Met Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu			
50	55	60	
agc cag ctc tcc atc atg gat acc atc tac atc tgt atc act gtc ccc			240
Ser Gln Leu Ser Ile Met Asp Thr Ile Tyr Ile Cys Ile Thr Val Pro			
65	70	75	80
aag atg ctc cag gac ctc ctg tcc aag gac aag acc att tcc ttc ctg			288
Lys Met Leu Gln Asp Leu Leu Ser Lys Asp Lys Thr Ile Ser Phe Leu			
85	90	95	
ggc tgt goa gtt cag atc ttc ctc tac ctg acc ctg att gga ggg gaa			336
Gly Cys Ala Val Gln Ile Phe Leu Tyr Leu Thr Leu Ile Gly Gly Glu			
100	105	110	
ttc ttc ctg ctg ggt ctc atg gcc tat gac cgc tat gtg gct gtg tgc			384
Phe Phe Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Val Cys			
115	120	125	
aac cct cta cgg tac cct ctc ctc atg aac cgc agg gtt tgc tta ttc			432
Asn Pro Leu Arg Tyr Pro Leu Leu Met Asn Arg Arg Val Cys Leu Phe			
130	135	140	
atg gtg gtc gcc tcc tgg gtt ggt ggt tcc ttg gat ggg ttc atg ctg			480
Met Val Val Gly Ser Trp Val Gly Gly Ser Leu Asp Gly Phe Met Leu			
145	150	155	160
act cct gtc act atg agt ttc ccc ttc tgt aga tcc cga gag atc aat			528
Thr Pro Val Thr Met Ser Phe Pro Phe Cys Arg Ser Arg Glu Ile Asn			
165	170	175	
cac ttt ttc tgt gag atc cca gcc gtg ctg aag ttg tct tgc aca gac			576
His Phe Phe Cys Glu Ile Pro Ala Val Leu Lys Leu Ser Cys Thr Asp			
180	185	190	
acg tca ctc tat gag acc ctg atg tat gcc tgc tgc gtg ctg atg ctg			624
Thr Ser Leu Tyr Glu Thr Leu Met Tyr Ala Cys Cys Val Leu Met Leu			
195	200	205	
ctt atc cct cta tct gtc atc tct gtc tcc tac acg cac atc ctc ctg			672
Leu Ile Pro Leu Ser Val Ile Ser Val Ser Tyr Thr His Ile Leu Leu			
210	215	220	
act gtc cac agg atg aac tct gct gag ggc cgg cgc aaa gcc ttt gct			720
Thr Val His Arg Met Asn Ser Ala Glu Gly Arg Arg Lys Ala Phe Ala			
225	230	235	240
acg tgt tcc tcc cac att atg gtg gtg agc gtt ttc tac ggg gca gcc			768
Thr Cys Ser Ser His Ile Met Val Val Ser Val Phe Tyr Gly Ala Ala			
245	250	255	
ttc tac acc aac gtg ctg ccc cac tcc tac cac act cca gag aaa gat			816
Phe Tyr Thr Asn Val Leu Pro His Ser Tyr His Thr Pro Glu Lys Asp			
260	265	270	
aaa gtg gtg tot gcc ttc tac acc atc ctc acc ccc atg ctc aac cca			864
Lys Val Val Ser Ala Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro			
275	280	285	

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PCT/BE01/00162

ctc atc tac agc ttg agg aat aaa gat gtg gct gca gct ctg agg aaa 912
 leu ile tyr ser leu arg asn lys asp val ala ala leu arg lys
 290 295 300

gta cta ggg aga tgt ggt tcc tcc cag agc atc agg gtg gcg act gtg 960
 val leu gly arg cys gly ser ser gln ser ile arg val ala thr val
 305 310 315 320

atc agg aag ggc tag 975
 ile arg lys gly

<210> 334

<211> 324

<212> PRT

<213> Homo Sapiens

<400> 334

Met Gly Met Glu Gly Leu Leu Gln Asn Ser Thr Asn Phe Val Leu Thr
 1 5 10 15

Gly Leu Ile Thr His Pro Ala Phe Pro Gly Leu Leu Phe Ala Ile Val
 20 25 30

Phe Ser Ile Phe Val Val Ala Ile Thr Ala Asn Leu Val Met Ile Leu
 35 40 45

Leu Ile His Met Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu
 50 55 60

Ser Gln Leu Ser Ile Met Asp Thr Ile Tyr Ile Cys Ile Thr Val Pro
 65 70 75 80

Lys Met Leu Gln Asp Leu Leu Ser Lys Asp Lys Thr Ile Ser Phe Leu
 85 90 95

Gly Cys Ala Val Gln Ile Phe Leu Tyr Leu Thr Leu Ile Gly Gly Glu
 100 105 110

Phe Phe Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Val Cys
 115 120 125

Asn Pro Leu Arg Tyr Pro Leu Leu Met Asn Arg Arg Val Cys Leu Phe
 130 135 140

Met Val Val Gly Ser Trp Val Gly Gly Ser Leu Asp Gly Phe Met Leu
 145 150 155 160

WO 02/24726

PCT/BE01/00162

Thr Pro Val Thr Met Ser Phe Pro Phe Cys Arg Ser Arg Glu Ile Asn
165 170 175

His Phe Phe Cys Glu Ile Pro Ala Val Leu Lys Leu Ser Cys Thr Asp
180 185 190

Thr Ser Leu Tyr Glu Thr Leu Met Tyr Ala Cys Cys Val Leu Met Leu
195 200 205

Leu Ile Pro Leu Ser Val Ile Ser Val Ser Tyr Thr His Ile Leu Leu
210 215 220

Thr Val His Arg Met Asn Ser Ala Glu Gly Arg Arg Lys Ala Phe Ala
225 230 235 240

Thr Cys Ser Ser His Ile Met Val Val Ser Val Phe Tyr Gly Ala Ala
245 250 255

Phe Tyr Thr Asn Val Leu Pro His Ser Tyr His Thr Pro Glu Lys Asp
260 265 270

Lys Val Val Ser Ala Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro
275 280 285

Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Ala Ala Ala Leu Arg Lys
290 295 300

Val Leu Gly Arg Cys Gly Ser Ser Gln Ser Ile Arg Val Ala Thr Val
305 310 315 320

Ile Arg Lys Gly

<210> 335
<211> 948
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(945)
<223>

<400> 335
atg gcc aac atc acc agg atg gcc aac cac act gga aag ttg gat ttc 48
Met Ala Asn Ile Thr Arg Met Ala Asn His Thr Gly Lys Leu Asp Phe
1 5 10 15
atc ctc atg gga ctc ttc aga cga tcc aac cat cca gct cta ctt agt 96

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Ile Leu Met Gly Leu Phe Arg Arg Ser Lys His Pro Ala Leu Leu Ser
      20      25      30
gtg gtc atc ttt gtg gtt ttc ctg aag gcg ttg tct gga aat gct gtc      144
Val Val Ile Phe Val Val Phe Leu Lys Ala Leu Ser Gly Asn Ala Val
      35      40      45
ctg atc ctt ctg ata cac tgt gac gcc cac ctc cac agc ccc atg tac      192
Leu Ile Leu Leu Ile His Cys Asp Ala His Leu His Ser Pro Met Tyr
      50      55      60
ttt ttc atc agt caa ttg tct ctc atg gac atg gcg tac att tct gtc      240
Phe Phe Ile Ser Gln Leu Ser Leu Met Asp Met Ala Tyr Ile Ser Val
      65      70      75      80
act atg ccc aag atg ctc ctg gac cag gtc atg ggt gtg aat aag gtc      288
Thr Val Pro Lys Met Leu Leu Asp Gln Val Met Gly Val Asn Lys Val
      85      90      95
tca gcc cct gag tgt ggg atg cag atg ttc ctc tat ctg acn cta gca      336
Ser Ala Pro Glu Cys Gly Met Gln Met Phe Leu Tyr Leu Thr Leu Ala
      100      105      110
ggt tgg gaa ttt ttc cct cta gcc acc atg gcc tat gac cgc tac gtg      384
Gly Ser Glu Phe Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val
      115      120      125
gcc atc tgc cat cct ctc cgt tac cct gtc ctc atg aac cat agg gtc      432
Ala Ile Cys His Pro Leu Arg Tyr Pro Val Leu Met Asn His Arg Val
      130      135      140
tgt ctt ttc ctg gca tgg gcc tgc tgg ttc ctg gcc tca gtc gat gcc      480
Cys Leu Phe Leu Ala Ser Gly Cys Trp Phe Leu Gly Ser Val Asp Gly
      145      150      155      160
ttc atg ctc act ccc atc acc atg agc ttc ccc ttc tgc aga tcc tgg      528
Phe Met Leu Thr Pro Ile Thr Met Ser Phe Pro Phe Cys Arg Ser Trp
      165      170      175
gag att cat cat ttc ttc tgt gaa gtc cct gct gta acg atc ctg tcc      576
Glu Ile His His Phe Phe Cys Glu Val Pro Ala Val Thr Ile Leu Ser
      180      185      190
tgc tca gac acc tca ctc tat gag acc ctc atg tac cta tgc tgt gtc      624
Cys Ser Asp Thr Ser Leu Tyr Glu Thr Leu Met Tyr Leu Cys Cys Val
      195      200      205
ctc atg ctc ctc atc cct gtg acg atc att tca agc tcc tat tta ctc      672
Leu Met Leu Leu Ile Pro Val Thr Ile Ile Ser Ser Ser Tyr Leu Leu
      210      215      220
atc ctc ctc acc gtc cac agg atg aac tca gca gag gcc cgg aaa aag      720
Ile Leu Leu Thr Val His Arg Met Asn Ser Ala Glu Gly Arg Lys Lys
      225      230      235      240
gcc ttt gcc acc tgc tcc tcc cac ctg act gtg gtc atc ctc ttc tat      768
Ala Phe Ala Thr Cys Ser Ser His Leu Thr Val Val Ile Leu Phe Tyr
      245      250      255
ggg gct gcc gtc tac acc tac atg ctc ccc agc tcc tac cac acc cct      816
Gly Ala Ala Val Tyr Thr Tyr Met Leu Pro Ser Ser Tyr His Thr Pro

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                260                265                270
gag aag gac atg atg gta tct gtc ttc tat acc atc ctc act cgg gtc      864
Glu Lys Asp Met Met Val Ser Val Phe Tyr Thr Ile Leu Thr Pro Val
275                280                285

ctg aac cct tta atc tat agt ctt agg aat aag gat gtc atg ggg gct      912
Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Met Gly Ala
290                295                300

ctg aag aaa atg tta act gtg aga ttc gtc ctt tag                      948
Leu Lys Lys Met Leu Thr Val Arg Phe Val Leu
305                310                315

<210> 336
<211> 315
<212> PRT
<213> Homo Sapiens

<400> 336
Met Ala Asn Ile Thr Arg Met Ala Asn His Thr Gly Lys Leu Asp Phe
1                    5                    10                    15

Ile Leu Met Gly Leu Phe Arg Arg Ser Lys His Pro Ala Leu Leu Ser
20                    25                    30

Val Val Ile Phe Val Val Phe Leu Lys Ala Leu Ser Gly Asn Ala Val
35                    40                    45

Leu Ile Leu Leu Ile His Cys Asp Ala His Leu His Ser Pro Met Tyr
50                    55                    60

Phe Phe Ile Ser Gln Leu Ser Leu Met Asp Met Ala Tyr Ile Ser Val
65                    70                    75                    80

Thr Val Pro Lys Met Leu Leu Asp Gln Val Met Gly Val Asn Lys Val
85                    90                    95

Ser Ala Pro Glu Cys Gly Met Gln Met Phe Leu Tyr Leu Thr Leu Ala
100                   105                   110

Gly Ser Glu Phe Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val
115                   120                   125

Ala Ile Cys His Pro Leu Arg Tyr Pro Val Leu Met Asn His Arg Val
130                   135                   140

Cys Leu Phe Leu Ala Ser Gly Cys Trp Phe Leu Gly Ser Val Asp Gly
145                   150                   155                   160

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Phe Met Leu Thr Pro Ile Thr Met Ser Phe Pro Phe Cys Arg Ser Trp
 165 170 175

Glu Ile His His Phe Phe Cys Glu Val Pro Ala Val Thr Ile Leu Ser
 180 185 190

Cys Ser Asp Thr Ser Leu Tyr Glu Thr Leu Met Tyr Leu Cys Cys Val
 195 200 205

Leu Met Leu Leu Ile Pro Val Thr Ile Ile Ser Ser Ser Tyr Leu Leu
 210 215 220

Ile Leu Leu Thr Val His Arg Met Asn Ser Ala Glu Gly Arg Lys Lys
 225 230 235 240

Ala Phe Ala Thr Cys Ser Ser His Leu Thr Val Val Ile Leu Phe Tyr
 245 250 255

Gly Ala Ala Val Tyr Thr Tyr Met Leu Pro Ser Ser Tyr His Thr Pro
 260 265 270

Glu Lys Asp Met Met Val Ser Val Phe Tyr Thr Ile Leu Thr Pro Val
 275 280 285

Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Met Gly Ala
 290 295 300

Leu Lys Lys Met Leu Thr Val Arg Phe Val Leu
 305 310 315

<210> 337
 <211> 993
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(990)
 <223>

<400> 337
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 Met Gly Leu Phe Arg Gln Ser Lys His Pro Met Ala Asn Ile Thr Trp
 1 5 10 15

atg gcc aac cac act gga tgg tgg gat ttc atc ctg ttg gga ctc ttc 96
 Met Ala Asn His Thr Gly Trp Ser Asp Phe Ile Leu Leu Gly Leu Phe
 20 25 30

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aga caa tcc aaa cat con gca cta ctt tgt gtg gtc att ttt gtg gtt      144
Arg Gln Ser Lys His Pro Ala Leu Leu Cys Val Val Ile Phe Val Val
      35              40              45

ttc ctg atg gcg ttg tct gga aat gct gtc ctg atc ctt ctg ata cac      192
Phe Leu Met Ala Leu Ser Gly Asn Ala Val Leu Ile Leu Leu Ile His
      50              55              60

tgt gac gcc cac ctg cac acc ccc atg tac ttt ttc atc agt caa ttg      240
Cys Asp Ala His Leu His Thr Pro Met Tyr Phe Phe Ile Ser Gln Leu
      65              70              75              80

tct ctg atg gac atg gcg tac att tct gtc act gtg ccc aag atg ctg      288
Ser Leu Met Asp Met Ala Tyr Ile Ser Val Thr Val Pro Lys Met Leu
      85              90              95

ctg gac cag gtc atg ggt gtg aat aag atc tca gcc cct gag tgt ggg      336
Leu Asp Gln Val Met Gly Val Asn Lys Ile Ser Ala Pro Glu Cys Gly
      100              105              110

atg cag atg ttc ttc tac gtg aca cta gca ggt tca gaa ttt ttc ctt      384
Met Gln Met Phe Phe Tyr Val Thr Leu Ala Gly Ser Glu Phe Phe Leu
      115              120              125

cta gcc acc atg gcc tat gac cgc tac gtg gcc atc tgc cat cct ctg      432
Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu
      130              135              140

cgt tac cct gtc ctg atg aac cat agg gtg tgt ctg ttc ctg tca tca      480
Arg Tyr Pro Val Leu Met Asn His Arg Val Cys Leu Phe Leu Ser Ser
      145              150              155              160

ggc tgc tgg ttc ctg gcc tca gtg gat gcc ttc aca ttc act ccc atc      528
Gly Cys Trp Phe Leu Gly Ser Val Asp Gly Phe Thr Phe Thr Pro Ile
      165              170              175

acc atg acc ttc ccc ttc cgt gga tcc cgg gag att cat cat ttc ttc      576
Thr Met Thr Phe Pro Phe Arg Gly Ser Arg Glu Ile His His Phe Phe
      180              185              190

tgt gaa gtt cct gct gta ttg aat ctg tcc tgc tca gac acc tca ctg      624
Cys Glu Val Pro Ala Val Leu Asn Leu Ser Cys Ser Asp Thr Ser Leu
      195              200              205

tat gag att ttc atg tac ttg tgc tgt gtc ctg atg ctg ctg atc cct      672
Tyr Glu Ile Phe Met Tyr Leu Cys Cys Val Leu Met Leu Leu Ile Pro
      210              215              220              225

gtg gtg atc att tca agc tcc tat tta ctg atc ctg ctg acc atc cac      720
Val Val Ile Ile Ser Ser Ser Tyr Leu Leu Ile Leu Leu Thr Ile His
      225              230              235              240

ggg atg aac tca gca gag gcc cgg aaa aag gcc ttt gcc acc tgc tcc      768
Gly Met Asn Ser Ala Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys Ser
      245              250              255

tcc cac ctg act gtg gtc atc ctg ttc tat ggg gct gcc atc tac acc      816
Ser His Leu Thr Val Val Ile Leu Phe Tyr Gly Ala Ala Ile Tyr Thr
      260              265              270

tac atg ctg ccc agc tcc tac cac acc cct gag aag gac atg atg gta      864

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Tyr Met Leu Pro Ser Ser Tyr His Thr Pro Glu Lys Asp Met Met Val
 275 280 285
 tct gtc ttc tat acc atc ctc act cca gtg gtg agc cct tta atc tat 912
 Ser Val Phe Tyr Thr Ile Leu Thr Pro Val Val Asn Pro Leu Ile Tyr
 290 295 300
 agt ctt agg aat aag gat gtc atg ggg gct ctg aag aaa atg tta aca 960
 Ser Leu Arg Asn Lys Asp Val Met Gly Ala Leu Lys Lys Met Leu Thr
 305 310 315 320
 gtg gaa cct gcc ttt caa aaa gct atg gag tag 993
 Val Glu Pro Ala Phe Gln Lys Ala Met Glu
 325 330

 <210> 338
 <211> 330
 <212> PRT
 <213> Homo Sapiens

 <400> 338
 Met Gly Leu Phe Arg Gln Ser Lys His Pro Met Ala Asn Ile Thr Trp
 1 5 10 15

 Met Ala Asn His Thr Gly Trp Ser Asp Phe Ile Leu Leu Gly Leu Phe
 20 25 30

 Arg Gln Ser Lys His Pro Ala Leu Leu Cys Val Val Ile Phe Val Val
 35 40 45

 Phe Leu Met Ala Leu Ser Gly Asn Ala Val Leu Ile Leu Leu Ile His
 50 55 60

 Cys Asp Ala His Leu His Thr Pro Met Tyr Phe Phe Ile Ser Gln Leu
 65 70 75 80

 Ser Leu Met Asp Met Ala Tyr Ile Ser Val Thr Val Pro Lys Met Leu
 85 90 95

 Leu Asp Gln Val Met Gly Val Asn Lys Ile Ser Ala Pro Glu Cys Gly
 100 105 110

 Met Gln Met Phe Phe Tyr Val Thr Leu Ala Gly Ser Glu Phe Phe Leu
 115 120 125

 Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu
 130 135 140

 Arg Tyr Pro Val Leu Met Asn His Arg Val Cys Leu Phe Leu Ser Ser
 145 150 155 160

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Gly Cys Trp Phe Leu Gly Ser Val Asp Gly Phe Thr Phe Thr Pro Ile
165 170 175

Thr Met Thr Phe Pro Phe Arg Gly Ser Arg Glu Ile His His Phe Phe
180 185 190

Cys Glu Val Pro Ala Val Leu Asn Leu Ser Cys Ser Asp Thr Ser Leu
195 200 205

Tyr Glu Ile Phe Met Tyr Leu Cys Cys Val Leu Met Leu Leu Ile Pro
210 215 220

Val Val Ile Ile Ser Ser Ser Tyr Leu Leu Ile Leu Leu Thr Ile His
225 230 235 240

Gly Met Asn Ser Ala Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys Ser
245 250 255

Ser His Leu Thr Val Val Ile Leu Phe Tyr Gly Ala Ala Ile Tyr Thr
260 265 270

Tyr Met Leu Pro Ser Ser Tyr His Thr Pro Glu Lys Asp Met Met Val
275 280 285

Ser Val Phe Tyr Thr Ile Leu Thr Pro Val Val Asn Pro Leu Ile Tyr
290 295 300

Ser Leu Arg Asn Lys Asp Val Met Gly Ala Leu Lys Lys Met Leu Thr
305 310 315 320

Val Glu Pro Ala Phe Gln Lys Ala Met Glu
325 330

<210> 339
<211> 940
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(939)
<223>

<400> 339
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Met Cys Ser Gly Asn Gln Thr Ser Gln Asn Gln Thr Ala Ser Thr Asp
1 5 10 15

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ttc acc ctc acg gga ctc ttt gct gag agc aag cat gct gcc ctc ctc      96
Phe Thr Leu Thr Gly Leu Phe Ala Glu Ser Lys His Ala Ala Leu Leu
      20              25              30

tac acc gtg acc ttc ctt ctt ttc ttg atg gcc ctc act ggg aat gcc      144
Tyr Thr Val Thr Phe Leu Leu Phe Leu Met Ala Leu Thr Gly Asn Ala
      35              40              45

ctc ctc atc ctc ctc atc cac tca gag ccc cgc ctc cad acc ccc atg      192
Leu Leu Ile Leu Leu Ile His Ser Glu Pro Arg Leu His Thr Pro Met
      50              55              60

tac ttc ttc atc agc cag ctc gcg ctc atg gat ctc atg tac cta tgc      240
Tyr Phe Phe Ile Ser Gln Leu Ala Leu Met Asp Leu Met Tyr Leu Cys
      65              70              75              80

gtg act gtg ccc aag atg ctt gtg ggc cag gtc act gga gat gat acc      288
Val Thr Val Pro Lys Met Leu Val Gly Gln Val Thr Gly Asp Asp Thr
      85              90              95

att tcc ccg tca gcc tgt ggg atc cag atg ttc ttc tac ctg acc ctg      336
Ile Ser Pro Ser Gly Cys Gly Ile Gln Met Phe Phe Tyr Leu Thr Leu
      100             105             110

gct gga gct gag gtt ttc ctc ctg gct gcc atg gcc tat gac cga tat      384
Ala Gly Ala Glu Val Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr
      115             120             125

gct gct gtt tgc aga cct ctc cat tac cca ctg ctg atg aac cag agg      432
Ala Ala Val Cys Arg Pro Leu His Tyr Pro Leu Met Asn Gln Arg
      130             135             140

gtg tgc cag ctc ctg gtg tca gcc tgc tgg gtt ttg gga atg gtt gat      480
Val Cys Gln Leu Leu Val Ser Ala Cys Trp Val Leu Gly Met Val Asp
      145             150             155             160

ggt ttg ttg ctc acc ccc att acc atg agc ttc ccc ttt tgc cag tct      528
Gly Leu Leu Leu Thr Pro Ile Thr Met Ser Phe Pro Phe Cys Gln Ser
      165             170             175

agg aaa atc ctg agt ttt ttc tgt gag act cct gcc ctg ctg aag ctc      576
Arg Lys Ile Leu Ser Phe Phe Cys Glu Thr Pro Ala Leu Leu Lys Leu
      180             185             190

tcc tgc tot gac gtc tcc ctc tat aag acg ctc atg tac ctg tgc tgc      624
Ser Cys Ser Asp Val Ser Leu Tyr Lys Thr Leu Met Tyr Leu Cys Cys
      195             200             205

atc ctc atg ctt ctc gcc ccc atc atg gtc atc tcc agc tca tac acc      672
Ile Leu Met Leu Leu Ala Pro Ile Met Val Ile Ser Ser Ser Tyr Thr
      210             215             220

ctc atc ctg cat ctc atc cac agg atg aat tct gcc gcc gcc cac agg      720
Leu Ile Leu His Leu Ile His Arg Met Asn Ser Ala Ala Gly His Arg
      225             230             235             240

aag gcc ttg gcc acc tgc tcc tcc cag atg atc ata gtg ctg ctg ctc      768
Lys Ala Leu Ala Thr Cys Ser Ser His Met Ile Ile Val Leu Leu Leu
      245             250             255

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ttc ggt gct tcc ttc tac acc tac atg ctc ccg agt tcc tac cac aca      816
Phe Gly Ala Ser Phe Tyr Thr Tyr Met Leu Pro Ser Ser Tyr His Thr
      260              265              270

gct gag cag gac atg atg gtg tct gcc ttt tac acc atc ttc act cct      864
Ala Glu Gln Asp Met Met Val Ser Ala Phe Tyr Thr Ile Phe Thr Pro
      275              280              285

gtg ctg aac ccc ctc att tac agt ctc cgc aac aca gat gtc acc agg      912
Val Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Thr Arg
      290              295              300

gct atg agg agc atg atg cag tca aga a      940
Ala Met Arg Ser Met Met Gln Ser Arg
      305              310

<210> 340
<211> 313
<212> PRT
<213> Homo Sapiens

<400> 340
Met Cys Ser Gly Asn Gln Thr Ser Gln Asn Gln Thr Ala Ser Thr Asp
1              5              10              15

Phe Thr Leu Thr Gly Leu Phe Ala Glu Ser Lys His Ala Ala Leu Leu
20              25              30

Tyr Thr Val Thr Phe Leu Leu Phe Leu Met Ala Leu Thr Gly Asn Ala
35              40              45

Leu Leu Ile Leu Leu Ile His Ser Glu Pro Arg Leu His Thr Pro Met
50              55              60

Tyr Phe Phe Ile Ser Gln Leu Ala Leu Met Asp Leu Met Tyr Leu Cys
65              70              75              80

Val Thr Val Pro Lys Met Leu Val Gly Gln Val Thr Gly Asp Asp Thr
85              90              95

Ile Ser Pro Ser Gly Cys Gly Ile Gln Met Phe Phe Tyr Leu Thr Leu
100             105             110

Ala Gly Ala Glu Val Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr
115             120             125

Ala Ala Val Cys Arg Pro Leu His Tyr Pro Leu Leu Met Asn Gln Arg
130             135             140

Val Cys Gln Leu Leu Val Ser Ala Cys Trp Val Leu Gly Met Val Asp

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145 150 155 160

Gly Leu Leu Leu Thr Pro Ile Thr Met Ser Phe Pro Phe Cys Gln Ser
165 170 175

Arg Lys Ile Leu Ser Phe Phe Cys Glu Thr Pro Ala Leu Leu Lys Leu
180 185 190

Ser Cys Ser Asp Val Ser Leu Tyr Lys Thr Leu Met Tyr Leu Cys Cys
195 200 205

Ile Leu Met Leu Leu Ala Pro Ile Met Val Ile Ser Ser Ser Tyr Thr
210 215 220

Leu Ile Leu His Leu Ile His Arg Met Asn Ser Ala Ala Gly His Arg
225 230 235 240

Lys Ala Leu Ala Thr Cys Ser Ser His Met Ile Ile Val Leu Leu Leu
245 250 255

Phe Gly Ala Ser Phe Tyr Thr Tyr Met Leu Pro Ser Ser Tyr His Thr
260 265 270

Ala Glu Gln Asp Met Met Val Ser Ala Phe Tyr Thr Ile Phe Thr Pro
275 280 285

Val Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Thr Arg
290 295 300

Ala Met Arg Ser Met Met Gln Ser Arg
305 310

<210> 341
<211> 939
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(936)
<223>

<400> 341
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Met Pro Asn Ser Thr Thr Val Met Glu Phe Leu Leu Met Arg Phe Ser
1 5 10 15

gat gtg tgg aca cta cag att tta cat tct gca tcc ttc ttt atg ttg 96
Asp Val Trp Thr Leu Gln Ile Leu His Ser Ala Ser Phe Phe Met Leu

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20	25	30	
tat ttg gta act cta atg gga aac atc ctc att gtg acc gtc acc acc			144
Tyr Leu Val Thr Leu Met Gly Asn Ile Leu Ile Val Thr Val Thr Thr			
35	40	45	
tgt gac agc agc ctt cac atg ccc atg tac ttc ttc ctc agg aat ctg			192
Cys Asp Ser Ser Leu His Met Pro Met Tyr Phe Phe Leu Arg Asn Leu			
50	55	60	
tct atc ttg gat gcc tgc tac att tct gtt aca gtc cct acc tca tgt			240
Ser Ile Leu Asp Ala Cys Tyr Ile Ser Val Thr Val Pro Thr Ser Cys			
65	70	75	80
gtc aat tcc ctg ctg gac agc acc acc att tct aag gcg gga tgt gta			288
Val Asn Ser Leu Leu Asp Ser Thr Thr Ile Ser Lys Ala Gly Cys Val			
85	90	95	
get cag gtc ttc ctc gtg gtt ttt ttt gta tat gtg gag ctt ctg ttt			336
Ala Gln Val Phe Leu Val Val Phe Phe Val Tyr Val Glu Leu Leu Phe			
100	105	110	
ctc acc att atg gct cat gac cgc tat gtg gct gtc tgc cag cca ctt			384
Leu Thr Ile Met Ala His Asp Arg Tyr Val Ala Val Cys Gln Pro Leu			
115	120	125	
cac tac cct gtg atc gtg aac tct cga atc tgc atc cag atg aca ctg			432
His Tyr Pro Val Ile Val Asn Ser Arg Ile Cys Ile Gln Met Thr Leu			
130	135	140	
gcc tcc cta ctc agt ggt ctt gtc tat gca gcc atg cac act gcc agc			480
Ala Ser Leu Leu Ser Gly Leu Val Tyr Ala Gly Met His Thr Gly Ser			
145	150	155	160
aca ttc cag ctg ccc ttc tgt cgg tcc aac gtt att cat caa ttc ttc			528
Thr Phe Gln Leu Pro Phe Cys Arg Ser Asn Val Ile His Gln Phe Phe			
165	170	175	
tgt gac atc ccc tct ctg ctg aag ctc tct tgc tct gac acc ttc agc			576
Cys Asp Ile Pro Ser Leu Leu Lys Leu Ser Cys Ser Asp Thr Phe Ser			
180	185	190	
aat gag gtc atg att gtt gtc tct gct ctg ggg gta ggt gcc gcc tgt			624
Asn Glu Val Met Ile Val Val Ser Ala Leu Gly Val Gly Gly Cys			
195	200	205	
ttc atc ttt atc atc agg tct tac att cac atc ttt tgc acc gtg ctc			672
Phe Ile Phe Ile Ile Arg Ser Tyr Ile His Ile Phe Ser Thr Val Leu			
210	215	220	
ggg ttt cca aga gga gca gac aga aca aag gcc ttt tcc acc tgc atc			720
Gly Phe Pro Arg Gly Ala Asp Arg Thr Lys Ala Phe Ser Thr Cys Ile			
225	230	235	240
cct cac atc ctg gtg gtg tca gtc ttc ctc agt tca tgc tct tct gtg			768
Pro His Ile Leu Val Val Ser Val Phe Leu Ser Ser Cys Ser Ser Val			
245	250	255	
tac ctc agg cca cct gcg ata cct gca gcc acc cag gat ctg atc ctt			816
Tyr Leu Arg Pro Pro Ala Ile Pro Ala Ala Thr Gln Asp Leu Ile Leu			
260	265	270	

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tct ggt ttt tat tcc ata atg cct ccc ctc ttt aac cct att att tac      864
Ser Gly Phe Tyr Ser Ile Met Pro Pro Leu Phe Asn Pro Ile Ile Tyr
      275              280              285

agt ctt aga aat aag caa ata aag gtg gcc atc aag aaa atc atg aag      912
Ser Leu Arg Asn Lys Gln Ile Lys Val Ala Ile Lys Lys Ile Met Lys
      290              295              300

aga att ttt tat tca gaa aat gtg taa      939
Arg Ile Phe Tyr Ser Glu Asn Val
      305              310

<210> 342
<211> 312
<212> PRT
<213> Homo Sapiens

<400> 342
Met Pro Asn Ser Thr Thr Val Met Glu Phe Leu Leu Met Arg Phe Ser
1              5              10              15

Asp Val Trp Thr Leu Gln Ile Leu His Ser Ala Ser Phe Phe Met Leu
20              25              30

Tyr Leu Val Thr Leu Met Gly Asn Ile Leu Ile Val Thr Val Thr Thr
35              40              45

Cys Asp Ser Ser Leu His Met Pro Met Tyr Phe Phe Leu Arg Asn Leu
50              55              60

Ser Ile Leu Asp Ala Cys Tyr Ile Ser Val Thr Val Pro Thr Ser Cys
65              70              75              80

Val Asn Ser Leu Leu Asp Ser Thr Thr Ile Ser Lys Ala Gly Cys Val
85              90              95

Ala Gln Val Phe Leu Val Val Phe Phe Val Tyr Val Glu Leu Leu Phe
100             105             110

Leu Thr Ile Met Ala His Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
115             120             125

His Tyr Pro Val Ile Val Asn Ser Arg Ile Cys Ile Gln Met Thr Leu
130             135             140

Ala Ser Leu Leu Ser Gly Leu Val Tyr Ala Gly Met His Thr Gly Ser
145             150             155             160

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Thr Phe Gln Leu Pro Phe Cys Arg Ser Asn Val Ile His Gln Phe Phe
165 170 175

Cys Asp Ile Pro Ser Leu Leu Lys Leu Ser Cys Ser Asp Thr Phe Ser
180 185 190

Asn Glu Val Met Ile Val Val Ser Ala Leu Gly Val Gly Gly Cys
195 200 205

Phe Ile Phe Ile Ile Arg Ser Tyr Ile His Ile Phe Ser Thr Val Leu
210 215 220

Gly Phe Pro Arg Gly Ala Asp Arg Thr Lys Ala Phe Ser Thr Cys Ile
225 230 235 240

Pro His Ile Leu Val Val Ser Val Phe Leu Ser Ser Cys Ser Ser Val
245 250 255

Tyr Leu Arg Pro Pro Ala Ile Pro Ala Ala Thr Gln Asp Leu Ile Leu
260 265 270

Ser Gly Phe Tyr Ser Ile Met Pro Pro Leu Phe Asn Pro Ile Ile Tyr
275 280 285

Ser Leu Arg Asn Lys Gln Ile Lys Val Ala Ile Lys Lys Ile Met Lys
290 295 300

Arg Ile Phe Tyr Ser Glu Asn Val
305 310

<210> 343
<211> 942
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> {1}..(939)
<223>

<400> 343
atg ggg cag acc aac gta acc tcc tgg agg gat ttt gtc ttc ctg ggc 48
Met Gly Gln Thr Asn Val Thr Ser Tyr Arg Asp Phe Val Phe Leu Gly
1 5 10 15
ttc tcc agt tct ggg gag ttg cag ctc ctt ctc ttt gcc ttg ttc ctc 96
Phe Ser Ser Ser Gly Glu Leu Gln Leu Leu Phe Ala Leu Phe Leu
20 25 30
tct ctg tat cta gtc act ctg acc agc aat gtc ttc att atc ata gcc 144

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Ser Leu Tyr Leu Val Thr Leu Thr Ser Asn Val Phe Ile Ile Ala 35 40 45 atc agg ctg gat agc cat ctg cac acc ccc atg tac ctc ttc ctt tcc 192 Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser 50 55 60 ttc cta tcc ttc tct gag acc tgc tac act ttg ggc atc atc cct aga 240 Phe Leu Ser Phe Ser Glu Thr Cys Tyr Thr Leu Gly Ile Ile Pro Arg 65 70 75 80 atg ctc tct ggc ctg gct ggg ggg gac cag gct atc tcc tat gtg ggc 288 Met Leu Ser Gly Leu Ala Gly Gly Asp Gln Ala Ile Ser Tyr Val Gly 85 90 95 tgt gct gcc cag atg ttc ttt tct gcc tca tgg gcc tgt act aac tgc 336 Cys Ala Ala Glu Met Phe Phe Ser Ala Ser Trp Ala Cys Thr Asn Cys 100 105 110 ttc ctt ctg gct gcc atg ggc ttt gac aga tat gtg gcc atc tgt gct 384 Phe Leu Leu Ala Ala Met Gly Phe Asp Arg Tyr Val Ala Ile Cys Ala 115 120 125 cca ctc cac tat gcc agc cac atg aat cct acc ctc tgt gcc cag ctg 432 Pro Leu His Tyr Ala Ser His Met Asn Pro Thr Leu Cys Ala Gln Leu 130 135 140 gtc att act tcc ttc ctg act gga tac ctc ttt gga ctg gga atg aca 480 Val Ile Thr Ser Phe Leu Thr Gly Tyr Leu Phe Gly Leu Gly Met Thr 145 150 155 160 cta gtt att ttc cac ctc tca ttc tgc agc tcc cat gaa atc cag cac 528 Leu Val Ile Phe His Leu Ser Phe Cys Ser Ser His Glu Ile Gln His 165 170 175 ttt ttt tgt gac acg cca cct gtg ctg agc cta gcc tgt gga gat aca 576 Phe Phe Cys Asp Thr Pro Pro Val Leu Ser Leu Ala Cys Gly Asp Thr 180 185 190 ggc cag agt gag ctg agg atc ttt atc ctc agt ctt ttg gtc ctc ttg 624 Gly Pro Ser Glu Leu Arg Ile Phe Ile Leu Ser Leu Leu Val Leu Leu 195 200 205 gtc tcc ttc ttc ttc atc acc atc tcc tcc gcc tcc atc ttg gca gca 672 Val Ser Phe Phe Phe Ile Thr Ile Ser Tyr Ala Tyr Ile Leu Ala Ala 210 215 220 ata ctg agg atc ccc tct gct gag ggg cag aag aag gcc ttc tcc act 720 Ile Leu Arg Ile Pro Ser Ala Glu Gly Gln Lys Lys Ala Phe Ser Thr 225 230 235 240 tgt gcc tgc cac ctt aca gtg gtc att att cat tat ggc tgt gct tcc 768 Cys Ala Ser His Leu Thr Val Val Ile Ile His Tyr Gly Cys Ala Ser 245 250 255 ttc gtg tac ctg agg ccc aaa gcc agc tac tct ctt gag aga gat cag 816 Phe Val Tyr Leu Arg Pro Lys Ala Ser Tyr Ser Leu Glu Arg Asp Glu 260 265 270 ctt att gcc atg acc tat act gta gtg acc ccc ctc ctt aat ccc att 864 Leu Ile Ala Met Thr Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Ile	

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                275                280                285
gtt tat agt cta agg act agg gct ata cag aca gct ctg agg aat gct      912
Val Tyr Ser Leu Arg Thr Arg Ala Ile Gln Thr Ala Leu Arg Asn Ala
290                295                300

ttc aga ggg aga ttg ctg ggt aaa gga tga      942
Phe Arg Gly Arg Leu Leu Gly Lys Gly
305                310

<210> 344
<211> 313
<212> PRT
<213> Homo Sapiens

<400> 344
Met Gly Gln Thr Asn Val Thr Ser Trp Arg Asp Phe Val Phe Leu Gly
1          5          10          15

Phe Ser Ser Ser Gly Glu Leu Gln Leu Leu Phe Ala Leu Phe Leu
20          25          30

Ser Leu Tyr Leu Val Thr Leu Thr Ser Asn Val Phe Ile Ile Ile Ala
35          40          45

Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
50          55          60

Phe Leu Ser Phe Ser Glu Thr Cys Tyr Thr Leu Gly Ile Ile Pro Arg
65          70          75          80

Met Leu Ser Gly Leu Ala Gly Gly Asp Gln Ala Ile Ser Tyr Val Gly
85          90          95

Cys Ala Ala Gln Met Phe Phe Ser Ala Ser Trp Ala Cys Thr Asn Cys
100         105         110

Phe Leu Leu Ala Ala Met Gly Phe Asp Arg Tyr Val Ala Ile Cys Ala
115         120         125

Pro Leu His Tyr Ala Ser His Met Asn Pro Thr Leu Cys Ala Gln Leu
130         135         140

Val Ile Thr Ser Phe Leu Thr Gly Tyr Leu Phe Gly Leu Gly Met Thr
145         150         155         160

Leu Val Ile Phe His Leu Ser Phe Cys Ser Ser His Glu Ile Gln His
165         170         175

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Phe Phe Cys Asp Thr Pro Pro Val Leu Ser Leu Ala Cys Gly Asp Thr
180 185 190

Gly Pro Ser Glu Leu Arg Ile Phe Ile Leu Ser Leu Leu Val Leu Leu
195 200 205

Val Ser Phe Phe Phe Ile Thr Ile Ser Tyr Ala Tyr Ile Leu Ala Ala
210 215 220

Ile Leu Arg Ile Pro Ser Ala Glu Gly Gln Lys Lys Ala Phe Ser Thr
225 230 235 240

Cys Ala Ser His Leu Thr Val Val Ile Ile His Tyr Gly Cys Ala Ser
245 250 255

Phe Val Tyr Leu Arg Pro Lys Ala Ser Tyr Ser Leu Glu Arg Asp Gln
260 265 270

Leu Ile Ala Met Thr Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Ile
275 280 285

Val Tyr Ser Leu Arg Thr Arg Ala Ile Gln Thr Ala Leu Arg Asn Ala
290 295 300

Phe Arg Gly Arg Leu Leu Gly Lys Gly
305 310

<210> 345
<211> 975
<212> DNA
<213> Homo Sapiens

<220>
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<222> (1)..(972)
<223>

<400> 345
atg gag agc ccc aat cga acc acc att cag gag ttt atc ttc tcc got 48
Met Glu Ser Pro Asn Arg Thr Thr Ile Gln Glu Phe Ile Phe Ser Ala
1 5 10 15
ttc cct tat tcc tgg gtt aag tot gtt gtc tgc ttt gtt cca ctg etc 96
Phe Pro Tyr Ser Trp Val Lys Ser Val Val Cys Phe Val Pro Leu Leu
20 25 30
ttc atc tat gct ttc att gtt gtt gga aac ctg gtc etc atc aca gtg 144
Phe Ile Tyr Ala Phe Ile Val Val Gly Asn Leu Val Ile Ile Thr Val
35 40 45

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gtc cag ttg aat act cac ctc cac act ccc atg tat act ttt atc agt Val Gln Leu Asn Thr His Leu His Thr Pro Met Tyr Thr Phe Ile Ser 50 55 60	192
gct ctt tct ttc ctg gag att tgg tat acc aca gcc aca atc cca aag Ala Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys 65 70 75 80	240
atg ctg tct agc ctg ctt agt gag agg agc att tcc ttc aat ggt tgt Met Leu Ser Ser Leu Leu Ser Glu Arg Ser Ile Ser Phe Asn Gly Cys 85 90 95	288
ctc ctg cag atg tat ttc ttc cat tcc acc ggc atc tgt gag gtg tgt Leu Leu Gln Met Tyr Phe Phe His Ser Thr Gly Ile Cys Glu Val Cys 100 105 110	336
ctc ttg aca gtt atg gcc ttt gac cac tac ctg gcc ata tgc agc cct Leu Leu Thr Val Met Ala Phe Asp His Tyr Leu Ala Ile Cys Ser Pro 115 120 125	384
ctt cat tat ccc tct atc atg acc ccc aag cta tgt acc caa ctg act Leu His Tyr Pro Ser Ile Met Thr Pro Lys Leu Cys Thr Gln Leu Thr 130 135 140	432
tta agt tgc tgt gtt tgt ggc ttt atc aca ccc cct cct gag att gcc Leu Ser Cys Cys Val Cys Gly Phe Ile Thr Pro Leu Pro Glu Ile Ala 145 150 155 160	480
tgg atc tct aca ctg cca ttt tgt ggt tgg aat cac ctt gaa cat atc Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn His Leu Glu His Ile 165 170 175	528
ttc tgt gac ttc ctc cca gtg ctg cgt ctg gcc tgc aca gac aca cga Phe Cys Asp Phe Leu Pro Val Leu Arg Leu Ala Cys Thr Asp Thr Arg 180 185 190	576
gcc atc gtc atg atc cag gta gtg gat gtc att cat gca gtg gag att Ala Ile Val Met Ile Gln Val Val Asp Val Ile His Ala Val Glu Ile 195 200 205	624
att aca gct gtg atg ctc atc ttc atg tcc tac gat ggt att gtg gct Ile Thr Ala Val Met Leu Ile Phe Met Ser Tyr Asp Gly Ile Val Ala 210 215 220	672
gta att cta cgt att cat tca gct gga gcc cgc cgc aca gca ttt tcc Val Ile Leu Arg Ile His Ser Ala Gly Gly Arg Thr Ala Phe Ser 225 230 235 240	720
acg tgt gtc tct cac ttc att gtc ttt tgc ctc ttc ttt ggc agt gtg Thr Cys Val Ser His Phe Ile Val Phe Ser Leu Phe Phe Gly Ser Val 245 250 255	768
act ctc atg tac cta cgc ttc tct gcc acc tac tct ttg ttc tgg gat Thr Leu Met Tyr Leu Arg Phe Ser Ala Thr Tyr Ser Leu Phe Thr Asp 260 265 270	816
ata gcc att gct ctg gcc ttt gca gtt ttg tct ccc ttc ttc aac ccc Ile Ala Ile Ala Leu Ala Phe Ala Val Leu Ser Pro Phe Phe Asn Pro 275 280 285	864
att atc tat agc ctg agg aat aaa gaa ata aaa gaa gct ata aaa aag	912

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Ile Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Glu Ala Ile Lys Lys
290                295                300

cac ata ggt caa gct aag ata ttt ttt tcc gta aga cca ggg acc tca      960
His Ile Gly Gln Ala Lys Ile Phe Phe Ser Val Arg Pro Gly Thr Ser
305                310                315                320

agt aag ata ttt tag      975
Ser Lys Ile Phe

<210> 346
<211> 324
<212> PRT
<213> Homo Sapiens

<400> 316

Met Glu Ser Pro Asn Arg Thr Thr Ile Gln Glu Phe Ile Phe Ser Ala
1                5                10                15

Phe Pro Tyr Ser Trp Val Lys Ser Val Val Cys Phe Val Pro Leu Leu
20                25                30

Phe Ile Tyr Ala Phe Ile Val Val Gly Asn Leu Val Ile Ile Thr Val
35                40                45

Val Gln Leu Asn Thr His Leu His Thr Pro Met Tyr Thr Phe Ile Ser
50                55                60

Ala Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys
65                70                75                80

Met Leu Ser Ser Leu Leu Ser Glu Arg Ser Ile Ser Phe Asn Gly Cys
85                90                95

Leu Leu Gln Met Tyr Phe Phe His Ser Thr Gly Ile Cys Glu Val Cys
100               105               110

Leu Leu Thr Val Met Ala Phe Asp His Tyr Leu Ala Ile Cys Ser Pro
115               120               125

Leu His Tyr Pro Ser Ile Met Thr Pro Lys Leu Cys Thr Gln Leu Thr
130               135               140

Leu Ser Cys Cys Val Cys Gly Phe Ile Thr Pro Leu Pro Glu Ile Ala
145               150               155               160

Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn His Leu Glu His Ile
165               170               175

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Phe Cys Asp Phe Leu Pro Val Leu Arg Leu Ala Cys Thr Asp Thr Arg
 180 185 190
 Ala Ile Val Met Ile Gln Val Val Asp Val Ile His Ala Val Glu Ile
 195 200 205
 Ile Thr Ala Val Met Leu Ile Phe Met Ser Tyr Asp Gly Ile Val Ala
 210 215 220
 Val Ile Leu Arg Ile His Ser Ala Gly Gly Arg Arg Thr Ala Phe Ser
 225 230 235 240
 Thr Cys Val Ser His Phe Ile Val Phe Ser Leu Phe Phe Gly Ser Val
 245 250 255
 Thr Leu Met Tyr Leu Arg Phe Ser Ala Thr Tyr Ser Leu Phe Trp Asp
 260 265 270
 Ile Ala Ile Ala Leu Ala Phe Ala Val Leu Ser Pro Phe Phe Asn Pro
 275 280 285
 Ile Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Glu Ala Ile Lys Lys
 290 295 300
 His Ile Gly Gln Ala Lys Ile Phe Phe Ser Val Arg Pro Gly Thr Ser
 305 310 315 320
 Ser Lys Ile Phe

<210> 347
 <211> 954
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(951)
 <223>

<400> 347
 atg gat caa tac aac cat tca agc ctg gct gaa ttt gtg ttc ctt ggc 48
 Met Asp Gln Tyr Asn His Ser Ser Leu Ala Glu Phe Val Phe Leu Gly
 1 5 10 15
 ttt gcc agt gtg ggc tat gtc agg ggc tgg ctt ttt gtc ctg ctg cta 56
 Phe Ala Ser Val Gly Tyr Val Arg Gly Trp Leu Phe Val Leu Leu Leu
 20 25 30

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ttg gca tac ctg ttc acc atc tgt ggt aac atg ctc atc ttc tca gtc      144
Leu Ala Tyr Leu Phe Thr Ile Cys Gly Asn Met Leu Ile Phe Ser Val
   35               40               45

atc cga ctg gat gca gct ctg cac aca cct atg tac cac ttt gtc agt      192
Ile Arg Leu Asp Ala Ala Leu His Thr Pro Met Tyr His Phe Val Ser
   50               55               60

gtt ctt tcc ttc ttg gag ttg tgg tat aca gct acc act atc cct aag      240
Val Leu Ser Phe Leu Glu Leu Trp Tyr Thr Ala Thr Thr Ile Pro Lys
   65               70               75               80

atg ttg tct aat att ctc agt gag aag aaa acc att tct ttt gca gga      288
Met Leu Ser Asn Ile Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly
   85               90               95

tgc ctc ctt cag acc tac ttc ttc cac tcc ttg gga gcg tct gaa tgc      336
Cys Leu Leu Gln Thr Tyr Phe Phe His Ser Leu Gly Ala Ser Glu Cys
  100               105               110

tac ctt ctt aca gcc atg gcc tat gat aga tac ctg gcc att tgt egg      384
Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg
  115               120               125

ccc ctc cac tac cct ata att atg acc acc aca ctc tgt gcc aag atg      432
Pro Leu His Tyr Pro Ile Ile Met Thr Thr Thr Leu Cys Ala Lys Met
  130               135               140

gct gct gct tgt tgg act tgt gcc ttc ctg tgt ccc att tct gag gtc      480
Ala Ala Ala Cys Trp Thr Cys Gly Phe Leu Cys Pro Ile Ser Glu Val
  145               150               155               160

atc ctt gcc tcc cag ctc cca ttt tgt gct tac aat gaa atc caa cac      528
Ile Leu Ala Ser Gln Leu Pro Phe Cys Ala Tyr Asn Glu Ile Gln His
  165               170               175

att ttc tgt gac ttt cca cct ttg ctg agc ttg gcc tgc aag gac aca      576
Ile Phe Cys Asp Phe Pro Pro Leu Leu Ser Leu Ala Cys Lys Asp Thr
  180               185               190

tct gct aac att ctg gtg gac ttt gcc att aat gct ttc ata att ctt      624
Ser Ala Asn Ile Leu Val Asp Phe Ala Ile Asn Ala Phe Ile Ile Leu
  195               200               205

atc act ttc ttc ttt atc atg att tct tat gca agg atc att ggg gct      672
Ile Thr Phe Phe Phe Ile Met Ile Ser Tyr Ala Arg Ile Ile Gly Ala
  210               215               220

gtg ctg aag ata aaa aca gca tca gga aga aag aag gcc ttt tct acc      720
Val Leu Lys Ile Lys Thr Ala Ser Gly Arg Lys Lys Ala Phe Ser Thr
  225               230               235               240

tgt gcc tca cat ctt gct gtg gtc ctc atc ttc ttt ggg agc atc atc      768
Cys Ala Ser His Leu Ala Val Val Leu Ile Phe Phe Gly Ser Ile Ile
  245               250               255

ttc atg tat gtg cgg cta aag aag agc tat tcc ctg acc ctt gac cga      816
Phe Met Tyr Val Arg Leu Lys Lys Ser Tyr Ser Leu Thr Leu Asp Arg
  260               265               270

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aca ctt gct ata gtt tac tcc gta cta aca cca atg gtc aat cca att      864
Thr Leu Ala Ile Val Tyr Ser Val Leu Thr Pro Met Val Asn Pro Ile
      275              280              285

atc tac agt ctt cgt aac aag gaa atc att aaa gct atc aag agg acc      912
Ile Tyr Ser Leu Arg Asn Lys Glu Ile Ile Lys Ala Ile Lys Arg Thr
      290              295              300

atc ttc cag aag gga gat aaa gct agt ctt gct cat ctt tga      954
Ile Phe Gln Lys Gly Asp Lys Ala Ser Leu Ala His Leu
      305              310              315

<210> 348
<211> 317
<212> PRT
<213> Homo Sapiens

<400> 348
Met Asp Gln Tyr Asn His Ser Ser Leu Ala Glu Phe Val Phe Leu Gly
1      5              10              15

Phe Ala Ser Val Gly Tyr Val Arg Gly Trp Leu Phe Val Leu Leu Leu
      20              25              30

Leu Ala Tyr Leu Phe Thr Ile Cys Gly Asn Met Leu Ile Phe Ser Val
      35              40              45

Ile Arg Leu Asp Ala Ala Leu His Thr Pro Met Tyr His Phe Val Ser
      50              55              60

Val Leu Ser Phe Leu Glu Leu Trp Tyr Thr Ala Thr Thr Ile Pro Lys
      65              70              75              80

Met Leu Ser Asn Ile Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly
      85              90              95

Cys Leu Leu Gln Thr Tyr Phe Phe His Ser Leu Gly Ala Ser Glu Cys
      100             105             110

Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg
      115             120             125

Pro Leu His Tyr Pro Ile Ile Met Thr Thr Thr Leu Cys Ala Lys Met
      130             135             140

Ala Ala Ala Cys Trp Thr Cys Gly Phe Leu Cys Pro Ile Ser Glu Val
      145             150             155             160

Ile Leu Ala Ser Gln Leu Pro Phe Cys Ala Tyr Asn Glu Ile Gln His

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165              170              175

Ile Phe Cys Asp Phe Pro Pro Leu Leu Ser Leu Ala Cys Lys Asp Thr
180              185              190

Ser Ala Asn Ile Leu Val Asp Phe Ala Ile Asn Ala Phe Ile Ile Leu
195              200              205

Ile Thr Phe Phe Phe Ile Met Ile Ser Tyr Ala Arg Ile Ile Gly Ala
210              215              220

Val Leu Lys Ile Lys Thr Ala Ser Gly Arg Lys Lys Ala Phe Ser Thr
225              230              235              240

Cys Ala Ser His Leu Ala Val Val Leu Ile Phe Phe Gly Ser Ile Ile
245              250              255

Phe Met Tyr Val Arg Leu Lys Lys Ser Tyr Ser Leu Thr Leu Asp Arg
260              265              270

Thr Leu Ala Ile Val Tyr Ser Val Leu Thr Pro Met Val Asn Pro Ile
275              280              285

Ile Tyr Ser Leu Arg Asn Lys Glu Ile Ile Lys Ala Ile Lys Arg Thr
290              295              300

Ile Phe Gln Lys Gly Asp Lys Ala Ser Leu Ala His Leu
305              310              315

<210> 349
<211> 960
<212> DNA
<213> Homo Sapiens

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<221> CDS
<222> (1)..(957)
<223>

<400> 349
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Met Thr Gln Leu Thr Ala Ser Gly Asn Gln Thr Met Val Thr Glu Phe
1 5 10 15

ctc ttc tct atg ttc cgg cat gcg cac aga ggt ggc ctc tta ttc ttt 96
Leu Phe Ser Met Phe Pro His Ala His Arg Gly Gly Leu Leu Phe Phe
20 25 30

att ccc ttg ctt ctg atc tac gga ttt atc cta act gga aac cta ata 144
Ile Pro Leu Leu Leu Ile Tyr Gly Phe Ile Leu Thr Gly Asn Leu Ile

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35	40	45	
atg ttc att gtc atc cag gtg ggc atg gcc ctg cac acc cct ttg tat			192
Met Phe Ile Val Ile Gln Val Gly Met Ala Leu His Thr Pro Leu Tyr			
50	55	60	
ttc ttt atc agt gtc ctc tcc ttc ctg gag atc tgc tat acc aca acc			240
Phe Phe Ile Ser Val Leu Ser Phe Leu Glu Ile Cys Tyr Thr Thr Thr			
65	70	75	80
acc atc ccc aag atg ctg tcc tgc cta atc agt gag cag aag agc att			288
Ser Ile Pro Lys Met Leu Ser Cys Leu Ile Ser Glu Gln Lys Ser Ile			
85	90	95	
tcc gtg gct ggc tgc ctc ctg cag atg tac ttt ttc cac tca ctt ggt			336
Ser Val Ala Gly Cys Leu Leu Gln Met Tyr Phe Phe His Ser Leu Gly			
100	105	110	
atc aca gaa agc tgt gtc ctg aca gca atg gcc att gac agg tac ata			384
Ile Thr Glu Ser Cys Val Leu Thr Ala Met Ala Ile Asp Arg Tyr Ile			
115	120	125	
gct atc tgc aat cca ctc cgt tac cca acc atc atg att ccc aaa ctt			432
Ala Ile Cys Asn Pro Leu Arg Tyr Pro Thr Ile Met Ile Pro Lys Leu			
130	135	140	
tgt atc cag ctg aca gtt gga tcc tgc ttt tgt gcc ttc ctc ctt gtg			480
Cys Ile Gln Leu Thr Val Gly Ser Cys Phe Cys Gly Phe Leu Leu Val			
145	150	155	160
ctt cct gag att gca tgg att tcc acc ttg cct ttc tgt gcc tcc aac			528
Leu Pro Glu Ile Ala Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn			
165	170	175	
cag atc cac cag ata ttc tgt gat ttc aca cct gtg ctg agc ttg gcc			576
Gln Ile His Gln Ile Phe Cys Asp Phe Thr Pro Val Leu Ser Leu Ala			
180	185	190	
tgc aca gat aca ttc cta gtg gtc att gtg gat gcc atc cat gca gcg			624
Cys Thr Asp Thr Phe Leu Val Val Ile Val Asp Ala Ile His Ala Ala			
195	200	205	
gaa att gta gcc tcc ttc ctg gtc att gct cta tcc tac atc cgg att			672
Glu Ile Val Ala Ser Phe Leu Val Ile Ala Leu Ser Tyr Ile Arg Ile			
210	215	220	
att ata gtg att ctg gga atg cac tca gct gaa ggt cat cac aag gcc			720
Ile Ile Val Ile Leu Gly Met His Ser Ala Glu Gly His His Lys Ala			
225	230	235	240
ttt tcc acc tgt gct gct cac ctt gct gtg ttc ttg cta ttt ttt gcc			768
Phe Ser Thr Cys Ala Ala His Leu Ala Val Phe Leu Leu Phe Phe Gly			
245	250	255	
agt gtg gct gtc atg tat ttg aga ttc tca gcc acc tac tca gtg ttt			816
Ser Val Ala Val Met Tyr Leu Arg Phe Ser Ala Thr Tyr Ser Val Phe			
260	265	270	
tgg gac aca gca att gct gtc aat ttt gtt atc ctt gct ccc ttt ttc			864
Trp Asp Thr Ala Ile Ala Val Thr Phe Val Ile Leu Ala Pro Phe Phe			
275	280	285	

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PCT/BE01/00162

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aac ccc atc atc tat agc ctg saa aac aag gar atg aaa gag gct att      912
Asn Pro ile ile Tyr Ser Leu Lys Asn Lys Asp Met Lys Glu Ala Ile
290                      295                      300

gga agg ctt ttc cac tat cag aag agg gct ggt tgg gct ggg aaa tag      960
Gly Arg Leu Phe His Tyr Gln Lys Arg Ala Gly Trp Ala Gly Lys
305                      310                      315

<210> 350
<211> 319
<212> PRT
<213> Homo Sapiens

<400> 350
Met Thr Gln Leu Thr Ala Ser Gly Asn Gln Thr Met Val Thr Glu Phe
1                      5                      10                      15

Leu Phe Ser Met Phe Pro His Ala His Arg Gly Gly Leu Leu Phe Phe
20                      25                      30

Ile Pro Leu Leu Leu Ile Tyr Gly Phe Ile Leu Thr Gly Asn Leu Ile
35                      40                      45

Met Phe Ile Val Ile Gln Val Gly Met Ala Leu His Thr Pro Leu Tyr
50                      55                      60

Phe Phe Ile Ser Val Leu Ser Phe Leu Glu Ile Cys Tyr Thr Thr Thr
65                      70                      75                      80

Thr Ile Pro Lys Met Leu Ser Cys Leu Ile Ser Glu Gln Lys Ser Ile
85                      90                      95

Ser Val Ala Gly Cys Leu Leu Gln Met Tyr Phe Phe His Ser Leu Gly
100                     105                     110

Ile Thr Glu Ser Cys Val Leu Thr Ala Met Ala Ile Asp Arg Tyr Ile
115                     120                     125

Ala Ile Cys Asn Pro Leu Arg Tyr Pro Thr Ile Met Ile Pro Lys Leu
130                     135                     140

Cys Ile Gln Leu Thr Val Gly Ser Cys Phe Cys Gly Phe Leu Leu Val
145                     150                     155                     160

Leu Pro Glu Ile Ala Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn
165                     170                     175

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PCT/BE01/00162

Gln Ile His Gln Ile Phe Cys Asp Phe Thr Pro Val Leu Ser Leu Ala
180 185 190

Cys Thr Asp Thr Phe Leu Val Val Ile Val Asp Ala Ile His Ala Ala
195 200 205

Glu Ile Val Ala Ser Phe Leu Val Ile Ala Leu Ser Tyr Ile Arg Ile
210 215 220

Ile Ile Val Ile Leu Gly Met His Ser Ala Glu Gly His His Lys Ala
225 230 235 240

Phe Ser Thr Cys Ala Ala His Leu Ala Val Phe Leu Leu Phe Phe Gly
245 250 255

Ser Val Ala Val Met Tyr Leu Arg Phe Ser Ala Thr Tyr Ser Val Phe
260 265 270

Trp Asp Thr Ala Ile Ala Val Thr Phe Val Ile Leu Ala Pro Phe Phe
275 280 285

Asn Pro Ile Ile Tyr Ser Leu Lys Asn Lys Asp Met Lys Glu Ala Ile
290 295 300

Gly Arg Leu Phe His Tyr Glu Lys Arg Ala Gly Trp Ala Gly Lys
305 310 315

<210> 351
<211> 975
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(972)
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1 5 10 15

ctg tct agt tca agg gag ctg caa cct ttc ttg ttt ctt aca ttt tca 96
Leu Ser Ser Ser Arg Glu Leu Gln Pro Phe Leu Phe Leu Thr Phe Ser
20 25 30

cta ctt tat cta gca att ctg ttg ggc aac ttt ctg atc atc ctg act 144
Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
35 40 45

gtg acc tca gat tcc cgc ctt cag acc ccc atg tac ttt ctg ctt gca 192

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Val Thr Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala	
50 55 60	
aac ctg tca ttt ata gac gta tgt gtt gcc tct ttt gct acc cct aaa	240
Asn Leu Ser Phe Ile Asp Val Cys Val Ala Ser Phe Ala Thr Pro Lys	
55 70 75 80	
atg att gca gac ttt ctg gtt gag cgc aag act att tct ttt gat gcc	288
Met Ile Ala Asp Phe Leu Val Glu Arg Lys Thr Ile Ser Phe Asp Ala	
85 90 95	
tgc ctg gcc cag att ttc ttt gtt cat ctc ttc act ggc agt gaa atg	336
Cys Leu Ala Gln Ile Phe Phe Val His Leu Phe Thr Gly Ser Glu Met	
100 105 110	
gtg ctc cta gtt tcc atg gcc tat gac cgt tat gtt gct ata tgc aaa	384
Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys	
115 120 125	
cct ctc cac tac atg aca gtc atg agc cgt cgt gta tgt gtt gtg ctc	432
Pro Leu His Tyr Met Thr Val Met Ser Arg Arg Val Cys Val Val Leu	
130 135 140	
gtc ctc att tca tgg ttt gtg ggc ttc atc cat act acc agc cag ttg	480
Val Leu Ile Ser Trp Phe Val Gly Phe Ile His Thr Thr Ser Gln Leu	
145 150 155 160	
gca ttc act gtt aat ctg cca ttt tgt ggt cct aat aag gta gac agt	528
Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser	
165 170 175	
ttt ttc tgt gac ctt cct cta gtg acc aag tta gcc tgc ata gac act	576
Phe Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys Ile Asp Thr	
180 185 190	
tat gtt gtc agc tta cta ata gtt gca gat agt ggc ttt ctt tct ctg	624
Tyr Val Val Ser Leu Leu Ile Val Ala Asp Ser Gly Phe Leu Ser Leu	
195 200 205	
agt tcc ttt ctc ctc ttg gtt gtc tcc tac act gta ata ctt gtt aca	672
Ser Ser Phe Leu Leu Leu Val Val Ser Tyr Thr Val Ile Leu Val Thr	
210 215 220	
gtt agg aat cgc tcc tct gca agc atg gcg aag gcc cgc tcc aca ttg	720
Val Arg Asn Arg Ser Ser Ala Ser Met Ala Lys Ala Arg Ser Thr Leu	
225 230 235 240	
act gct cac atc act gtg gtc act tta ttc ttt gga cca tgc att ttc	768
Thr Ala His Ile Thr Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe	
245 250 255	
atc tat gtg tgg ccc ttc agc agt tac tca gtt gac aaa gtc ctt gct	816
Ile Tyr Val Trp Pro Phe Ser Ser Tyr Ser Val Asp Lys Val Leu Ala	
260 265 270	
gta ttc tac acc atc ttc acg ctt att tta aac cct gta atc tac acg	864
Val Phe Tyr Thr Ile Phe Thr Leu Ile Leu Asn Pro Val Ile Tyr Thr	
275 280 285	
cta aga aac aaa gaa gtg aag gca gct atg tca aaa ctg aag agt cgg	912
Leu Arg Asn Lys Glu Val Lys Ala Ala Met Ser Lys Leu Lys Ser Arg	

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290 295 300
 tat ctg aag cct agt cag gtt tct gta gtc ata aga aat gtt ctt ttc 300
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 305 310 315 320
 cta gaa aca aag taa 325
 Leu Glu Thr Lys 330

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 Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
 35 40 45
 Val Thr Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala
 50 55 60
 Asn Leu Ser Phe Ile Asp Val Cys Val Ala Ser Phe Ala Thr Pro Lys
 65 70 75 80
 Met Ile Ala Asp Phe Leu Val Glu Arg Lys Thr Ile Ser Phe Asp Ala
 85 90 95
 Cys Leu Ala Gln Ile Phe Phe Val His Leu Phe Thr Gly Ser Glu Met
 100 105 110
 Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125
 Pro Leu His Tyr Met Thr Val Met Ser Arg Arg Val Cys Val Val Leu
 130 135 140
 Val Leu Ile Ser Trp Phe Val Gly Phe Ile His Thr Thr Ser Gln Leu
 145 150 155 160
 Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser
 165 170 175

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Phe Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys Ile Asp Thr
180 185 190

Tyr Val Val Ser Leu Leu Ile Val Ala Asp Ser Gly Phe Leu Ser Leu
195 200 205

Ser Ser Phe Leu Leu Leu Val Val Ser Tyr Thr Val Ile Leu Val Thr
210 215 220

Val Arg Asn Arg Ser Ser Ala Ser Met Ala Lys Ala Arg Ser Thr Leu
225 230 235 240

Thr Ala His Ile Thr Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe
245 250 255

Ile Tyr Val Trp Pro Phe Ser Ser Tyr Ser Val Asp Lys Val Leu Ala
260 265 270

Val Phe Tyr Thr Ile Phe Thr Leu Ile Leu Asn Pro Val Ile Tyr Thr
275 280 285

Leu Arg Asn Lys Glu Val Lys Ala Ala Met Ser Lys Leu Lys Ser Arg
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Tyr Leu Lys Pro Ser Glu Val Ser Val Val Ile Arg Asn Val Leu Phe
305 310 315 320

Leu Glu Thr Lys

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<212> DNA
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Met Ala His Thr Asn Glu Ser Met Val Ser Glu Phe Val Leu Leu Gly
1 5 10 15
ctc tct aat tcc tgg gga ctt caa ctt ttc ttt ttt gcc atc ttc tct 96
Leu Ser Asn Ser Trp Gly Leu Gln Leu Phe Phe Phe Ala Ile Phe Ser
20 25 30

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ata gtc tat gtg aca tca gtg cta ggc aat gtc tta att att gtc att Ile Val Tyr Val Thr Ser Val Leu Gly Asn Val Leu Ile Ile Val Ile 35 40 45	144
att tct ttt gac tcc cat ttg aac tct cct atg tac ttc ttg ctc agt Ile Ser Phe Asp Ser His Leu Asn Ser Pro Met Tyr Phe Leu Leu Ser 50 55 60	192
aat ctt tct ttc att gat atc tgt cag tct aac ttt gcc acc ccc aag Asn Leu Ser Phe Ile Asp Ile Cys Gln Ser Asn Phe Ala Thr Pro Lys 65 70 75 80	240
atg ctt gta gac ttt ttt att gag cgc aag act atc tcc ttt gag ggt Met Leu Val Asp Phe Phe Ile Glu Arg Lys Thr Ile Ser Phe Glu Gly 85 90 95	288
tgc atg gcc cag ata ttc gtt ctt cac agt ttt gtt ggg agt gag atg Cys Met Ala Gln Ile Phe Val Leu His Ser Phe Val Gly Ser Glu Met 100 105 110	336
atg ttg ctt gta gct atg gca tat gac aga ttt ata gcc ata tgt aag Met Leu Leu Val Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys Lys 115 120 125	384
cct ctg cac tac agt aca atb atg aac cgg agg ctc tgt gta att ttt Pro Leu His Tyr Ser Thr Ile Met Asn Arg Arg Leu Cys Val Ile Phe 130 135 140	432
gtg tct att tcc tgg gcg gtg ggc gtt ctt cat tct gtg agc cac ttg Val Ser Ile Ser Trp Ala Val Gly Val Leu His Ser Val Ser His Leu 145 150 155 160	480
gct ttt aca gtg gac ctg cca ttc tgt ggt ccc aat gag gtg gat agc Ala Phe Thr Val Asp Leu Pro Phe Cys Gly Pro Asn Glu Val Asp Ser 165 170 175	528
ttc ttt tgt gac ctt ccc ttg gtg ata gag ctg gct tgc atg gat aca Phe Phe Cys Asp Leu Pro Leu Val Ile Glu Leu Ala Cys Met Asp Thr 180 185 190	576
tat gaa atg gaa att atg acc cta acg aac agt ggc ctg ata tca ttg Tyr Glu Met Glu Ile Met Thr Leu Thr Asn Ser Gly Leu Ile Ser Leu 195 200 205	624
agc tgt ttc ctg gct tta att att tcc tac acc atc att ttg atc ggt Ser Cys Phe Leu Ala Leu Ile Ile Ser Tyr Thr Ile Ile Leu Ile Gly 210 215 220	672
gtc cga tgc agg tcc tcc agt ggg tca tct aag gct ctt tct aca tta Val Arg Cys Arg Ser Ser Ser Gly Ser Ser Lys Ala Leu Ser Thr Leu 225 230 235 240	720
act gcc cac atc aca gtg gtc att ctt ttc ttc ggg cct tgc att tat Thr Ala His Ile Thr Val Val Ile Leu Phe Phe Gly Pro Cys Ile Tyr 245 250 255	768
ttc tat ata tgg cct ttt agc aga ctt cct gtg gac aaa ttt ctt tct Phe Tyr Ile Trp Pro Phe Ser Arg Leu Pro Val Asp Lys Phe Leu Ser 260 265 270	816
gtg ttc tac act gtt tgt act ccc ttg ttg aac ccc atc atc tac tct	864

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Val Phe Tyr Thr Val Cys Thr Pro Leu Leu Asn Pro Ile Ile Tyr Ser
275                280                285

ctg agg aat gaa gat gtt aaa gca gcc atg tgg aag ctg aga aac cgt      912
Leu Arg Asn Glu Asp Val Lys Ala Ala Met Trp Lys Leu Arg Asn Arg
290                295                300

cat gtg aac tcc tgg aag aac tag      936
His Val Asn Ser Trp Lys Asn
305                310

<210> 354
<211> 311
<212> PRT
<213> Homo Sapiens

<400> 354
Met Ala His Thr Asn Glu Ser Met Val Ser Glu Phe Val Leu Leu Gly
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Leu Ser Asn Ser Trp Gly Leu Gln Leu Phe Phe Phe Ala Ile Phe Ser
20                25                30

Ile Val Tyr Val Thr Ser Val Leu Gly Asn Val Leu Ile Ile Val Ile
35                40                45

Ile Ser Phe Asp Ser His Leu Asn Ser Pro Met Tyr Phe Leu Leu Ser
50                55                60

Asn Leu Ser Phe Ile Asp Ile Cys Gln Ser Asn Phe Ala Thr Pro Lys
65                70                75                80

Met Leu Val Asp Phe Phe Ile Glu Arg Lys Thr Ile Ser Phe Glu Gly
85                90                95

Cys Met Ala Gln Ile Phe Val Leu His Ser Phe Val Gly Ser Glu Met
100               105               110

Met Leu Leu Val Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys Lys
115               120               125

Pro Leu His Tyr Ser Thr Ile Met Asn Arg Arg Leu Cys Val Ile Phe
130               135               140

Val Ser Ile Ser Trp Ala Val Gly Val Leu His Ser Val Ser His Leu
145               150               155               160

Ala Phe Thr Val Asp Leu Pro Phe Cys Gly Pro Asn Glu Val Asp Ser
165               170               175

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Phe Phe Cys Asp Leu Pro Leu Val Ile Glu Leu Ala Cys Met Asp Thr
180 185 190

Tyr Glu Met Glu Ile Met Thr Leu Thr Asn Ser Gly Leu Ile Ser Leu
195 200 205

Ser Cys Phe Leu Ala Leu Ile Ile Ser Tyr Thr Ile Ile Leu Ile Gly
210 215 220

Val Arg Cys Arg Ser Ser Ser Gly Ser Ser Lys Ala Leu Ser Thr Leu
225 230 235 240

Thr Ala His Ile Thr Val Val Ile Leu Phe Phe Gly Pro Cys Ile Tyr
245 250 255

Phe Tyr Ile Trp Pro Phe Ser Arg Leu Pro Val Asp Lys Phe Leu Ser
260 265 270

Val Phe Tyr Thr Val Cys Thr Pro Leu Leu Asn Pro Ile Ile Tyr Ser
275 280 285

Leu Arg Asn Glu Asp Val Lys Ala Ala Met Trp Lys Leu Arg Asn Arg
290 295 300

His Val Asn Ser Trp Lys Asn
305 310

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1 5 10 15

ctc tgc act tca cga cat ctt cca aat ttt ttc ttt ata ttt ttc ttt 96
Leu Cys Thr Ser Arg His Leu Gln Asn Phe Phe Phe Ile Phe Phe Phe
20 25 30

ggg gtc tat gtg gcc att atg ctg ggt aac ctt ctc att ttg gtc act 144
Gly Val Tyr Val Ala Ile Met Leu Gly Asn Leu Leu Ile Leu Val Thr
35 40 45

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gta att tct gat ccc tgc ctg cac tcc tcc cct atg tac ttc ctg ctg 192
Val Ile Ser Asp Pro Cys Leu His Ser Ser Pro Met Tyr Phe Leu Leu
50 55 60

ggg aac cta gct ttc ctg gac atg tgg ctg gcc tca ttt gcc act ccc 240
Gly Asn Leu Ala Phe Leu Asp Met Trp Leu Ala Ser Phe Ala Thr Pro
65 70 75 80

aag atg atc agg gat ttc ctt agt gat caa aaa ctc atc tcc ttt gga 288
Lys Met Ile Arg Asp Phe Leu Ser Asp Gln Lys Leu Ile Ser Phe Gly
85 90 95

gga tgt atg gct caa atc ttc ttc ttg cac ttt act ggt ggg gct gag 336
Gly Cys Met Ala Gln Ile Phe Phe Leu His Phe Thr Gly Gly Ala Gln
100 105 110

atg gtg ctc ctg gtt tcc atg gcc tat gac aga tat gtg gcc ata tgc 384
Met Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
115 120 125

aaa ccc ttg cat tac atg act ttg atg agt tgg cag act tgc atc agg 432
Lys Pro Leu His Tyr Met Thr Leu Met Ser Trp Gln Thr Cys Ile Arg
130 135 140

ctg gtg ctg gct tca tgg gtc gtt gga ttt gtg cwc tcc atc agt caa 480
Leu Val Leu Ala Ser Trp Val Val Gly Phe Val His Ser Ile Ser Gln
145 150 155 160

gtg gct ttc act gta aat ttg cct tac tgt ggc ccc aat gag gta gac 528
Val Ala Phe Thr Val Asn Leu Pro Tyr Cys Gly Pro Asn Glu Val Asp
165 170 175

agc ttc ttc tgt gac ctc cct ctg gtg atc aaa ctt gcc tgc atg gac 576
Ser Phe Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Met Asp
180 185 190

acc tat gtc ttg ggt ata att atg atc tca gac agt ggg ttg ctt tcc 624
Thr Tyr Val Leu Gly Ile Ile Met Ile Ser Asp Ser Gly Leu Leu Ser
195 200 205

ttg agc tgt ttt ctg ctc ctc ctg atc tcc tac acc gtg atc ctc ctc 672
Leu Ser Cys Phe Leu Leu Leu Ile Ser Tyr Thr Val Ile Leu Leu
210 215 220

gct atc aga cag cgt gct gcc ggt agc aca tcc aaa gca ctc tcc act 720
Ala Ile Arg Gln Arg Ala Ala Gly Ser Thr Ser Lys Ala Leu Ser Thr
225 230 235 240

tgc tct gca cat atc atg gta gtg acg ctg ttc ttt ggc cct tgc att 768
Cys Ser Ala His Ile Met Val Val Thr Leu Phe Phe Gly Pro Cys Ile
245 250 255

ttt gtt tat gtg cgg cct ttc agt agg ttc tct gtg gac aag ctg ctg 816
Phe Val Tyr Val Arg Pro Phe Ser Arg Phe Ser Val Asp Lys Leu Leu
260 265 270

tct gtg ttt tat acc att ttt act cca ctc ctg aac ccc att atc tac 864
Ser Val Phe Tyr Thr Ile Phe Thr Pro Leu Leu Asn Pro Ile Ile Tyr
275 280 285

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aca ttg aga aat gag gag atg aaa gca gct atg aag aaa ctg caa aac      912
Thr Leu Arg Asn Glu Glu Met Lys Ala Ala Met Lys Lys Leu Gln Asn
290                295                300

cga cgg gtg act ttt caa tga      933
Arg Arg Val Thr Phe Gln
305                310

<210> 356
<211> 310
<212> PRT
<213> Homo Sapiens

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Met Asp Pro Gln Asn Tyr Ser Leu Val Ser Glu Phe Val Leu His Gly
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Leu Cys Thr Ser Arg His Leu Gln Asn Phe Phe Phe Ile Phe Phe Phe
20                25                30

Gly Val Tyr Val Ala Ile Met Leu Gly Asn Leu Leu Ile Leu Val Thr
35                40                45

Val Ile Ser Asp Pro Cys Leu His Ser Ser Pro Met Tyr Phe Leu Leu
50                55                60

Gly Asn Leu Ala Phe Leu Asp Met Trp Leu Ala Ser Phe Ala Thr Pro
65                70                75                80

Lys Met Ile Arg Asp Phe Leu Ser Asp Gln Lys Leu Ile Ser Phe Gly
85                90                95

Gly Cys Met Ala Gln Ile Phe Phe Leu His Phe Thr Gly Gly Ala Glu
100               105               110

Met Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
115               120               125

Lys Pro Leu His Tyr Met Thr Leu Met Ser Trp Gln Thr Cys Ile Arg
130               135               140

Leu Val Leu Ala Ser Trp Val Val Gly Phe Val His Ser Ile Ser Glu
145               150               155               160

Val Ala Phe Thr Val Asn Leu Pro Tyr Cys Gly Pro Asn Glu Val Asp
165               170               175

Ser Phe Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Met Asp

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180 185 190
 Thr Tyr Val Leu Gly Ile Ile Met Ile Ser Asp Ser Gly Leu Leu Ser
 195 200 205
 Leu Ser Cys Phe Leu Leu Leu Leu Ile Ser Tyr Thr Val Ile Leu Leu
 210 215 220
 Ala Ile Arg Gln Arg Ala Ala Gly Ser Thr Ser Lys Ala Leu Ser Thr
 225 230 235 240
 Cys Ser Ala His Ile Met Val Val Thr Leu Phe Phe Gly Pro Cys Ile
 245 250 255
 Phe Val Tyr Val Arg Pro Phe Ser Arg Phe Ser Val Asp Lys Leu Leu
 260 265 270
 Ser Val Phe Tyr Thr Ile Phe Thr Pro Leu Leu Asn Pro Ile Ile Tyr
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 ttt ttt gga cga tgg gaa ctt caa att ttc ttc ttt gtg aca ttt tcc 96
 Phe Phe Gly Arg Trp Glu Leu Gln Ile Phe Phe Phe Val Thr Phe Ser
 20 25 30
 ctg atc tac ggt gct act gtg atg gga aac att ctc att atg gtc aca 144
 Leu Ile Tyr Gly Ala Thr Val Met Gly Asn Ile Leu Ile Met Val Thr
 35 40 45
 gtg aca tgt agg tca acc ctt cat tct ccc ttg tac ttt ctc ctt gga 192
 Val Thr Cys Arg Ser Thr Leu His Ser Pro Leu Tyr Phe Leu Leu Gly

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50	55	60	
aat ctc tct ttt ttg gac atg tgt ctc tcc act gcc aca aca ccc aag	240		
Asn Leu Ser Phe Leu Asp Met Cys Leu Ser Thr Ala Thr Thr Pro Lys			
65 70 75 80			
atg atc ata gat ttg ctc act gac cag aag acc atc tct gtg tgg ggc	288		
Met Ile Ile Asp Leu Leu Thr Asp His Lys Thr Ile Ser Val Trp Gly			
85 90 95			
tgc gtg acc cag atg ttc ttc atg cac ttc ttt ggg ggt gct gag atg	336		
Thr Val Thr Gln Met Phe Phe Met His Phe Phe Gly Gly Ala Glu Met			
100 105 110			
act ctt ctg ata atc atg gcc ttt gac agg tat gta gcc ata tgt aaa	384		
Pro Leu His Tyr Arg Thr Ile Met Ser His Lys Leu Leu Lys Gly Phe			
115 120 125			
ccc ctg cac tat agg aca atc atg agc cac aag ctg cta aag ggg ttt	432		
Pro Leu His Tyr Arg Thr Ile Met Ser His Lys Leu Leu Lys Gly Phe			
130 135 140			
ggc ata ctt tca tgg ata att ggt ttt tta cac tcc ata agc cag ata	480		
Ala Ile Leu Ser Trp Ile Ile Gly Phe Leu His Ser Ile Ser Gln Ile			
145 150 155 160			
gtt tta aca atg aac ttg cct ttc tgt ggc cac aat gtc ata aac aac	528		
Val Leu Thr Met Asn Leu Pro Phe Cys Gly His Asn Val Ile Asn Asn			
165 170 175			
ata ttt tgt gat ctt ccc ctt gtg atc aag ctt gct tgc att gaa aca	576		
Ile Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Ile Glu Thr			
180 185 190			
tac acc ctg gaa tta ttt gtc att gct gac agc ggg ctg ctc tct ttc	624		
Tyr Thr Leu Glu Leu Phe Val Ile Ala Asp Ser Gly Leu Leu Ser Phe			
195 200 205			
acc tgt ttc atc ctc ttg ctt gtt tct tac att gtc atc ctg gtc agt	672		
Thr Cys Phe Ile Leu Leu Leu Val Ser Tyr Ile Val Ile Leu Val Ser			
210 215 220			
gta cca aaa aaa tca tca cat ggg ctc tcc aag ggc ctg tcc aca ttg	720		
Val Pro Lys Lys Ser Ser His Gly Leu Ser Lys Ala Leu Ser Thr Leu			
225 230 235 240			
tct gcc cac atc att gtg gtc act ctg ttc ttt gga cct tgt att ttt	768		
Ser Ala His Ile Ile Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe			
245 250 255			
atc tat gtt tgg cca ttc agt agt ttg gca agc aat aaa act ctt gcc	816		
Ile Tyr Val Trp Pro Phe Ser Ser Leu Ala Ser Asn Lys Thr Leu Ala			
260 265 270			
gta ttt tat aca gtt atc aca ccc tta ctg aat ccg agt att tat acc	864		
Val Phe Tyr Thr Val Ile Thr Pro Leu Leu Asn Pro Ser Ile Tyr Thr			
275 280 285			
ctg aga aat aag aaa atg caa gag gcc ata aga aaa tta cgg ttc caa	912		
Leu Arg Asn Lys Lys Met Gln Glu Ala Ile Arg Lys Leu Arg Phe Gln			
290 295 300			

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PCT/BE01/00162

tat gtt agt tct gca cag aat ttc tag 939
 Tyr Val Ser Ser Ala Gln Asn Phe
 305 310

<210> 358
 <211> 312
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 <213> Homo Sapiens

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Met Asp Leu Lys Asn Gly Ser Leu Val Thr Glu Phe Ile Leu Leu Gly
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Phe Phe Gly Arg Trp Glu Leu Gln Ile Phe Phe Phe Val Thr Phe Ser
 20 25 30

Leu Ile Tyr Gly Ala Thr Val Met Gly Asn Ile Leu Ile Met Val Thr
 35 40 45

Val Thr Cys Arg Ser Thr Leu His Ser Pro Leu Tyr Phe Leu Leu Gly
 50 55 60

Asn Leu Ser Phe Leu Asp Met Cys Leu Ser Thr Ala Thr Thr Pro Lys
 65 70 75 80

Met Ile Ile Asp Leu Leu Thr Asp His Lys Thr Ile Ser Val Trp Gly
 85 90 95

Cys Val Thr Gln Met Phe Phe Met His Phe Phe Gly Gly Ala Glu Met
 100 105 110

Thr Leu Leu Ile Ile Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125

Pro Leu His Tyr Arg Thr Ile Met Ser His Lys Leu Leu Lys Gly Phe
 130 135 140

Ala Ile Leu Ser Trp Ile Ile Gly Phe Leu His Ser Ile Ser Gln Ile
 145 150 155 160

Val Leu Thr Met Asn Leu Pro Phe Cys Gly His Asn Val Ile Asn Asn
 165 170 175

Ile Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Ile Glu Thr
 180 185 190

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Tyr Thr Leu Glu Leu Phe Val Ile Ala Asp Ser Gly Leu Leu Ser Phe
195 200 205

Thr Cys Phe Ile Leu Leu Val Ser Tyr Ile Val Ile Leu Val Ser
210 215 220

Val Pro Lys Lys Ser Ser His Gly Leu Ser Lys Ala Leu Ser Thr Leu
225 230 235 240

Ser Ala His Ile Ile Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe
245 250 255

Ile Tyr Val Trp Pro Phe Ser Ser Leu Ala Ser Asn Lys Thr Leu Ala
260 265 270

Val Phe Tyr Thr Val Ile Thr Pro Leu Leu Asn Pro Ser Ile Tyr Thr
275 280 285

Leu Arg Asn Lys Lys Met Gln Glu Ala Ile Arg Lys Leu Arg Phe Gln
290 295 300

Tyr Val Ser Ser Ala Gln Asn Phe
305 310

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att tct aac tat cct caa tgg aga gac acg ttt ttc aca tta gtg ctg 96
Ile Ser Asn Tyr Pro Gln Trp Arg Asp Thr Phe Phe Thr Leu Val Leu
20 25 30
ata att tac ctc agc aca ttg ttg ggg aat gga ttt atg atc ttt ctt 144
Ile Ile Tyr Leu Ser Thr Leu Leu Gly Asn Gly Phe Met Ile Phe Leu
35 40 45
att cac ttt gac ccc aac ctc cac act cca atc tac ttc ttc ctt agt 192
Ile His Phe Asp Pro Asn Leu His Thr Pro Ile Tyr Phe Phe Leu Ser
50 55 60
aac ctg tct ttc tta gac ctt tgt tat gga aca ggt tcc atg ccc cag 240

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Asn Leu Ser Phe Leu Asp Leu Cys Tyr Gly Thr Ala Ser Met Pro Gln
65          70          75          80

gct ttg gtg cat tgt ttc tct acc cat ccc tac ctc tct tat ccc cga      288
Ala Leu Val His Cys Phe Ser Thr His Pro Tyr Leu Ser Tyr Pro Arg
85          90          95

tgt ttg gct caa acg agt gtc tcc ttg gct ttg gcc aca gca gag tgc      326
Cys Leu Ala Gln Thr Ser Val Ser Leu Ala Leu Ala Thr Ala Glu Cys
100         105         110

ctc cta ctg got gcc atg gcc tat gac cgt gtg gtt got atc agc aat      384
Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Val Val Ala Ile Ser Asn
115         120         125

ccc ctg cgt tat tca gtg gtt atg aat gcc cca gtg tgt gtc tgc ttg      432
Pro Leu Arg Tyr Ser Val Val Met Asn Gly Pro Val Cys Val Cys Leu
130         135         140

gtt gct acc tca tgg ggg aca tca ctt gtg ctc act gcc atg ctc atc      480
Val Ala Thr Ser Trp Gly Thr Ser Leu Val Leu Thr Ala Met Leu Ile
145         150         155

cta tcc ctg agg ctt cac ttc tgt ggg gct aat gtc atc aac cat ttt      528
Leu Ser Leu Arg Leu His Phe Cys Gly Ala Asn Val Ile Asn His Phe
165         170         175

gcc tgt gag att ctc tcc ctc att aag ctg acc tgt tct gat acc agc      576
Ala Cys Glu Ile Leu Ser Leu Ile Lys Leu Thr Cys Ser Asp Thr Ser
180         185         190

ctc aat gaa ttt atg atc ctc atc acc agt atc ttc acc ctg ctg cta      624
Leu Asn Glu Phe Met Ile Leu Ile Thr Ser Ile Phe Thr Leu Leu Leu
195         200         205

cca ttt ggg ttt gtt ctc ctc tcc tac ata cga att gct atg gct atc      672
Pro Phe Gly Phe Val Leu Leu Ser Tyr Ile Arg Ile Ala Met Ala Ile
210         215         220

ata agg att cgc tca ctc cag gcc agg ctc aag gcc ttt acc aca tgt      720
Ile Arg Ile Arg Ser Leu Gln Gly Arg Leu Lys Ala Phe Thr Thr Cys
225         230         235

ggc tct cac ctg acc gtg gtg aca atc ttc tat ggg tca gcc atc tcc      768
Gly Ser His Leu Thr Val Val Thr Ile Phe Tyr Gly Ser Ala Ile Ser
245         250         255

atg tat atg aaa act cag tcc aag tcc tcc cct gac cag gac aag ttt      816
Met Tyr Met Lys Thr Gln Ser Lys Ser Ser Pro Asp Gln Asp Lys Phe
260         265         270

atc tca gtg ttt tat gga gct ttg aca ccc atg ttg aac ccc ctg ata      864
Ile Ser Val Phe Tyr Gly Ala Leu Thr Pro Met Leu Asn Pro Leu Ile
275         280         285

tat agc ctg aga aaa aaa gat gtt aaa cgg gca ata agg aaa gtt atg      912
Tyr Ser Leu Arg Lys Lys Asp Val Lys Arg Ala Ile Arg Lys Val Met
290         295         300

ttg aaa agg aca tga      927
Leu Lys Arg Thr

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305

<210> 360
 <211> 308
 <212> PRT
 <213> Homo Sapiens

<400> 360

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Met Ala Met Asp Asn Val Thr Ala Val Phe Gln Phe Leu Leu Ile Gly
 1          5          10          15

Ile Ser Asn Tyr Pro Gln Trp Arg Asp Thr Phe Phe Thr Leu Val Leu
      20          25          30

Ile Ile Tyr Leu Ser Thr Leu Leu Gly Asn Gly Phe Met Ile Phe Leu
 35          40          45

Ile His Phe Asp Pro Asn Leu His Thr Pro Ile Tyr Phe Phe Leu Ser
 50          55          60

Asn Leu Ser Phe Leu Asp Leu Cys Tyr Gly Thr Ala Ser Met Pro Gln
 65          70          75          80

Ala Leu Val His Cys Phe Ser Thr His Pro Tyr Leu Ser Tyr Pro Arg
      85          90          95

Cys Leu Ala Gln Thr Ser Val Ser Leu Ala Leu Ala Thr Ala Glu Cys
100          105          110

Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Val Val Ala Ile Ser Asn
115          120          125

Pro Leu Arg Tyr Ser Val Val Met Asn Gly Pro Val Cys Val Cys Leu
130          135          140

Val Ala Thr Ser Trp Gly Thr Ser Leu Val Leu Thr Ala Met Leu Ile
145          150          155          160

Leu Ser Leu Arg Leu His Phe Cys Gly Ala Asn Val Ile Asn His Phe
165          170          175

Ala Cys Glu Ile Leu Ser Leu Ile Lys Leu Thr Cys Ser Asp Thr Ser
180          185          190

Leu Asn Glu Phe Met Ile Leu Ile Thr Ser Ile Phe Thr Leu Leu Leu
195          200          205

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Pro Phe Gly Phe Val Leu Leu Ser Tyr Ile Arg Ile Ala Met Ala Ile
 210 215 220

Ile Arg Ile Arg Ser Leu Gln Gly Arg Leu Lys Ala Phe Thr Thr Cys
 235 230 235 240

Gly Ser His Leu Thr Val Val Thr Ile Phe Tyr Gly Ser Ala Ile Ser
 245 250 255

Met Tyr Met Lys Thr Gln Ser Lys Ser Ser Pro Asp Gln Asp Lys Phe
 260 265 270

Ile Ser Val Phe Tyr Gly Ala Leu Thr Pro Met Leu Asn Pro Leu Ile
 275 280 285

Tyr Ser Leu Arg Lys Lys Asp Val Lys Arg Ala Ile Arg Lys Val Met
 290 295 300

Leu Lys Arg Thr
 305

<210> 361
 <211> 900
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(897)
 <223>

<400> 361
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 Met Glu Pro Arg Lys Asn Val Thr Asp Phe Val Leu Leu Gly Phe Thr
 1 5 10 15
 cag aat cca aag gag cag aaa gta ctt ttt gtt atg ttc ttg ctc ttc 96
 Gln Asn Pro Lys Gln Gln Lys Val Leu Phe Val Met Phe Leu Leu Phe
 20 25 30
 tac att ttg acc atg gtg ggc aac ctg ctc att gta gtg acc gta act 144
 Tyr Ile Leu Thr Met Val Gly Asn Leu Leu Ile Val Val Thr Val Thr
 35 40 45
 gtc agt gag acc ctg ggc tca cca atg tcc ttc ttt att gct ggc tta 192
 Val Ser Glu Thr Leu Gly Ser Pro Met Ser Phe Phe Leu Ala Gly Leu
 50 55 60
 aca ttt ata gat atc att tat tct tca tcc att tcc ccc aga ttg att 240
 Thr Phe Ile Asp Ile Ile Tyr Ser Ser Ser Ile Ser Pro Arg Leu Ile
 65 70 75 80

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tca gac ttg ttc ttt ggg aat aat tcc ata tcc ttc caa tct ttc atg      288
Ser Asp Leu Phe Phe Gly Asn Asn Ser Ile Ser Phe Gln Ser Phe Met
85                               90                               95

gcc cag ctc ttt atc gag cac ctt ttt ggt ggg tca gag gtc ttt ctc      336
Ala Gln Leu Phe Ile Gln His Leu Phe Gly Gly Ser Gln Val Phe Leu
100                             105                             110

ctg ttg gtg atg gcc tat gac cgc tat gtg gcc atc tgt aag ccc ttg      384
Leu Leu Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
115                             120                             125

cat tat ttg gtt atc atg aga caa tgg gtg tgt gtt ttg ctg ctg gta      433
His Tyr Leu Val Ile Met Arg Gln Trp Val Cys Val Leu Leu Leu Val
130                             135                             140

gtg tcc tgg gtt gga gga ttt ctg caa tca gta ttt caa ctt agc att      480
Val Ser Trp Val Gly Gly Phe Leu Gln Ser Val Phe Gln Leu Ser Ile
145                             150                             155

att tat ggg ctc cca ttc tgt ggc ccc aat gtc att gat cat ttt ttc      528
Ile Tyr Gly Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Phe
165                             170                             175

tgt gac atg tat ccc tta ttg aaa ctg gcc tgc act gac acc cat gtt      576
Cys Asp Met Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His Val
180                             185                             190

att ggc ctc tta gtg gtg gcc aat gga gga ctg tct tgc act att gcg      624
Ile Gly Leu Leu Val Val Ala Asn Gly Gly Leu Ser Cys Thr Ile Ala
195                             200                             205

ttt ctg ctc tta ctc atc tct tat ggt gtc atc ctg cac tct cta aag      672
Phe Leu Leu Leu Ile Ile Ser Tyr Gly Val Ile Leu His Ser Leu Lys
210                             215                             220

aaa ctt agt cag aaa ggg agg caa aaa gcc cac tca acc tgc agt tcc      720
Lys Leu Ser Gln Lys Gly Arg Gln Lys Ala His Ser Thr Cys Ser Ser
225                             230                             235

cac atc act gtg gtt gtc ttc ttc ttt gtt cct tgt att ttt atg tgt      768
His Ile Thr Val Val Val Phe Phe Phe Val Pro Cys Ile Phe Met Cys
245                             250                             255

gct aga cct gct agg acc ttc tcc att gac aaa tca gtg agt gtg ttt      816
Ala Arg Pro Ala Arg Thr Phe Ser Ile Asp Lys Ser Val Ser Val Phe
260                             265                             270

tat aca gtc ata acc cca atg ctg aac ccc tta atc tac act ctg aga      864
Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
275                             280                             285

aat tct gag atg aca agt got atg aag aag ctt tag      900
Asn Ser Gln Met Thr Ser Ala Met Lys Lys Leu
290                             295

<210> 362
<211> 299
<212> PRT
<213> Homo Sapiens

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<400> 362

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Met Glu Pro Arg Lys Asn Val Thr Asp Phe Val Leu Leu Gly Phe Thr
1      5      10      15

Gln Asn Pro Lys Glu Gln Lys Val Leu Phe Val Met Phe Leu Leu Phe
20      25      30

Tyr Ile Leu Thr Met Val Gly Asn Leu Leu Ile Val Val Thr Val Thr
35      40      45

Val Ser Glu Thr Leu Gly Ser Pro Met Ser Phe Phe Leu Ala Gly Leu
50      55      60

Thr Phe Ile Asp Ile Ile Tyr Ser Ser Ser Ile Ser Pro Arg Leu Ile
65      70      75      80

Ser Asp Leu Phe Phe Gly Asn Asn Ser Ile Ser Phe Gln Ser Phe Met
85      90      95

Ala Gln Leu Phe Ile Glu His Leu Phe Gly Gly Ser Glu Val Phe Leu
100     105     110

Leu Leu Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
115     120     125

His Tyr Leu Val Ile Met Arg Gln Trp Val Cys Val Leu Leu Val
130     135     140

Val Ser Trp Val Gly Gly Phe Leu Gln Ser Val Phe Gln Leu Ser Ile
145     150     155     160

Ile Tyr Gly Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Phe
165     170     175

Cys Asp Met Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His Val
180     185     190

Ile Gly Leu Leu Val Val Ala Asn Gly Gly Leu Ser Cys Thr Ile Ala
195     200     205

Phe Leu Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu His Ser Leu Lys
210     215     220

Lys Leu Ser Gln Lys Gly Arg Gln Lys Ala His Ser Thr Cys Ser Ser
225     230     235     240

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His Ile Thr Val Val Val Phe Phe Phe Val Pro Cys Ile Phe Met Cys
245 250 255

Ala Arg Pro Ala Arg Thr Phe Ser Ile Asp Lys Ser Val Ser Val Phe
260 265 270

Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
275 280 285

Asn Ser Glu Met Thr Ser Ala Met Lys Lys Leu
290 295

<210> 363
<211> 948
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(945)
<223>

<400> 363
atg aga cag aat aac aat att aca gaa ttt gtc ctc ctg ggc ttt tct 48
Met Arg Gln Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
1 5 10 15
cag gat cct ggt gtg caa aaa gca tta ttt gtc atg ttt tta ctc aca 96
Gln Asp Pro Gly Val Gln Lys Ala Leu Phe Val Met Phe Leu Leu Thr
20 25 30
tac ttg gtg aca gtg gtg ggc aac ctg ctc att gtg gtg gat att att 144
Tyr Leu Val Thr Val Val Gly Asn Leu Leu Ile Val Val Asp Ile Ile
35 40 45
gcc agc cct tcc ttg ggt tcc cca atg tat ttc ttc ctt gcc tgc ctg 192
Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu
50 55 60
tca ttt ata gat got gca tat tcc act acc att tct ccc aag tta att 240
Ser Phe Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile
65 70 75 80
gta gcc tta ttc tgt gat aaa aag act att tcc ttc caa ggt tgc atg 288
Val Gly Leu Phe Cys Asp Lys Lys Thr Ile Ser Phe Gln Gly Cys Met
85 90 95
ggc cag cta ttt ata gac cat ttc ttt ggt ggc gct gag gtc ttc ctt 336
Gly Gln Leu Phe Ile Asp His Phe Phe Gly Gly Ala Glu Val Phe Leu
100 105 110
ctg gtg gtg atg gcc tgt gat cgc tat gtg gcc atc tgt aag cca ctg 384
Leu Val Val Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
115 120 125

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cac tat ttg acc atc atg aat cga cag gtt tgc ttc ctt ctg ttg gtg    432
His Tyr Leu Thr Ile Met Asn Arg Gln Val Cys Phe Leu Leu Val
130                      135                      140

gtg gcc atg att gga ggt ttt gta cat tct gcg ttt caa att gtt gtg    480
Val Ala Met Ile Gly Gly Phe Val His Ser Ala Phe Gln Ile Val Val
145                      150                      155                      160

tac agt ctc cct arc tgt ggt ccc aat gtc att gtt cat ttc agt tgt    528
Tyr Ser Leu Pro Ile Cys Gly Pro Asn Val Ile Val His Phe Ser Cys
165                      170                      175

gac atg cag cca tta ctg gaa ctg gca tgc act gac acc tac ttt ata    576
Asp Met His Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr Tyr Phe Ile
180                      185                      190

ggc ctc act gtt gtt gtc aat agt gga gca atc tgt atg gtc att ttc    624
Gly Leu Thr Val Val Val Asn Ser Gly Ala Ile Cys Met Val Ile Phe
195                      200                      205

aac ctt ctg tta atc tcc tat gga gtc atc cta agc tcc ctt aaa act    672
Asn Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Ser Ser Leu Lys Thr
210                      215                      220

tac agt cag gaa aag agg ggt aaa gcc ttg tct acc tgc agc tcc gcc    720
Tyr Ser Gln Glu Lys Arg Gly Lys Ala Leu Ser Thr Cys Ser Ser Gly
225                      230                      235                      240

agt acc gtt gtt gtc ctc ttt ttt gta ccc tgt att ttc ata tat gtt    768
Ser Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Ile Tyr Val
245                      250                      255

aga cct gtt tca aac ttt cct act gat aag ttc atg aot gtg ttt tat    816
Arg Pro Val Ser Asn Phe Pro Thr Asp Lys Phe Met Thr Val Phe Tyr
260                      265                      270

acc att atc aca cac atg ctg agt cct tta ata tat acg ttg aga aat    864
Thr Ile Ile Thr His Met Leu Ser Pro Leu Ile Tyr Thr Leu Arg Asn
275                      280                      285

tca gag atg aga aat gct ata gaa aaa ctc ttg ggt aaa aag tta act    912
Ser Glu Met Arg Asn Ala Ile Glu Lys Leu Leu Gly Lys Lys Leu Thr
290                      295                      300

ata ttt att ata gga gga gtg tcc gtc ctc atg tag                    948
Ile Phe Ile Ile Gly Gly Val Ser Val Leu Met
305                      310                      315

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<210> 364
 <211> 315
 <212> PRT
 <213> Homo Sapiens

<400> 364

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Met Arg Gln Asn Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
1          5          10          15

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Gln Asp Pro Gly Val Gln Lys Ala Leu Phe Val Met Phe Leu Leu Thr
 20 25 30
 Tyr Leu Val Thr Val Val Gly Asn Leu Leu Ile Val Val Asp Ile Ile
 35 40 45
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu
 50 55 60
 Ser Phe Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile
 65 70 75 80
 Val Gly Leu Phe Cys Asp Lys Lys Thr Ile Ser Phe Gln Gly Cys Met
 85 90 95
 Gly Gln Leu Phe Ile Asp His Phe Phe Gly Gly Ala Glu Val Phe Leu
 100 105 110
 Leu Val Val Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Leu Thr Ile Met Asn Arg Gln Val Cys Phe Leu Leu Leu Val
 130 135 140
 Val Ala Met Ile Gly Gly Phe Val His Ser Ala Phe Gln Ile Val Val
 145 150 155 160
 Tyr Ser Leu Pro Ile Cys Gly Pro Asn Val Ile Val His Phe Ser Cys
 165 170 175
 Asp Met His Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr Tyr Phe Ile
 180 185 190
 Gly Leu Thr Val Val Val Asn Ser Gly Ala Ile Cys Met Val Ile Phe
 195 200 205
 Asn Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Ser Ser Leu Lys Thr
 210 215 220
 Tyr Ser Gln Glu Lys Arg Gly Lys Ala Leu Ser Thr Cys Ser Ser Gly
 225 230 235 240
 Ser Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Ile Tyr Val
 245 250 255
 Arg Pro Val Ser Asn Phe Pro Thr Asp Lys Phe Met Thr Val Phe Tyr

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                260                265                270

Thr Ile Ile Thr His Met Leu Ser Pro Leu Ile Tyr Thr Leu Arg Asn
275                280                285

Ser Glu Met Arg Asn Ala Ile Glu Lys Leu Leu Gly Lys Lys Leu Thr
290                295                300

Ile Phe Ile Ile Gly Gly Val Ser Val Leu Met
305                310                315

<210> 365
<211> 1044
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(1041)
<223>

<400> 365
atg ggt aac tgg act gca gcg gtg act gag ttt gtt ctg ctg ggg ttt      48
Met Gly Asn Trp Thr Ala Ala Val Thr Glu Phe Val Leu Leu Gly Phe
1          5          10          15

tcc ctg agc agg gag gtg gag ctg ctg ctc ctg gtg ctc ctg ctg ccc      96
Ser Leu Ser Arg Glu Val Glu Leu Leu Leu Val Leu Leu Leu Pro
20          25          30

acg ttc ctg ctg act ctt ctg ggg aac ctg ctc atc atc tcc act gtg      144
Thr Phe Leu Leu Thr Leu Leu Gly Asn Leu Leu Ile Ile Ser Thr Val
35          40          45

ctg tcc tgc tcc cgc ctc cac acc ccc atg tac ttc ttc ttg tgc aac      192
Leu Ser Cys Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Cys Asn
50          55          60

ctc tct atc ctg gac atc ctc ttc acc tca gtc atc tct cca aaa gtg      240
Leu Ser Ile Leu Asp Ile Leu Phe Thr Ser Val Ile Ser Pro Lys Val
65          70          75          80

ttg gcc aac tta gga tct agg gat aaa acc atc tcc ttt gcc gga tgt      288
Leu Ala Asn Leu Gly Ser Arg Asp Lys Thr Ile Ser Phe Ala Gly Cys
85          90          95

atc acc cag tgc tat ttc tac ttt ttc ttg ggc aca gtt gag ttc ctc      336
Ile Thr Gln Cys Tyr Phe Tyr Phe Phe Leu Gly Thr Val Glu Phe Leu
100         105         110

ctg ctg acg gtc atg tcc tat gac cgt tat gcc acc atc tgc tgc ccc      384
Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Ala Thr Ile Cys Cys Pro
115         120         125

ctg cgg tac acc acc atc atg aga cct tct gtc tgc att ggg acc gtt      432
Leu Arg Tyr Thr Thr Ile Met Arg Pro Ser Val Cys Ile Gly Thr Val

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130	135	140	
gta ttc tct tgg gtg gga ggc ttc ctg tct gtg etc ttt cca acc atc			480
Val Phe Ser Trp Val Gly Gly Phe Leu Ser Val Leu Phe Pro Thr Ile			
145	150	155	160
ctc atc tcc cag ctg ccc ttc tgt ggc tcc aat atc att aac cac ttc			528
Leu Ile Ser Gln Leu Pro Phe Cys Gly Ser Asn Ile Ile Asn His Phe			
165	170	175	
ttc tgt gac agt gga ccc ttg ctg gcc ctg gcc tgt gca gac acc act			576
Phe Cys Asp Ser Ser Gly Pro Leu Leu Ala Leu Ala Cys Ala Asp Thr Thr			
180	185	190	
gcc atc gag ctg atg gat ttt atg ctt tot tcc atg gtc etc ctc tgc			624
Ala Ile Glu Leu Met Asp Phe Met Leu Ser Ser Met Val Ile Leu Cys			
195	200	205	
tgc ata gtc etc gtg gcc tat tcc tat acg tac atc atc ttg acc ata			672
Cys Ile Val Leu Val Ala Tyr Ser Tyr Thr Tyr Ile Ile Leu Thr Ile			
210	215	220	
gtg cgc att cct tct gca agt gga agg aag aag gcc ttt aat acc tgt			720
Val Arg Ile Pro Ser Ala Ser Gly Arg Lys Lys Ala Phe Asn Thr Cys			
225	230	235	240
gct tcc cac ctg acc ata gtc atc att cct agt ggc atc act gtg ttt			768
Ala Ser His Leu Thr Ile Val Ile Ile Pro Ser Gly Ile Thr Val Phe			
245	250	255	
atc tat gtg act ccc tcc cag aaa gaa tat ctg gag atc aac aag atc			816
Ile Tyr Val Thr Pro Ser Gln Lys Glu Tyr Leu Glu Ile Asn Lys Ile			
260	265	270	
cct ttg gtt ctg agc agt gtg gtg act cca ttc etc aac ccc ttt ata			864
Pro Leu Val Leu Ser Ser Val Val Thr Pro Phe Leu Asn Pro Phe Ile			
275	280	285	
tat act ctg agg aat gac aca gtg cag gga gtc etc agg gat gtg tgg			912
Tyr Thr Leu Arg Asn Asp Thr Val Gln Gly Val Leu Arg Asp Val Trp			
290	295	300	
gtc agg gtt cga gga gtt ttt gaa aag agg atg agg gca gtg ctg aga			960
Val Arg Val Arg Gly Val Phe Glu Lys Arg Met Arg Ala Val Leu Arg			
305	310	315	320
agg aga tta tcc tcc aac aaa gac cac caa gga agg gct tgc tct tct			1008
Ser Arg Leu Ser Ser Asn Lys Asp His Gln Gly Arg Ala Cys Ser Ser			
325	330	335	
cca cca tgt gtc tat tct gta aag etc cag tgt tag			1044
Pro Pro Cys Val Tyr Ser Val Lys Leu Gln Cys			
340	345		
<210> 366			
<211> 347			
<212> PRT			
<213> Homo Sapiens			
<400> 366			

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Met Gly Asn Trp Thr Ala Ala Val Thr Glu Phe Val Leu Leu Gly Phe
 1 5 10 15

Ser Leu Ser Arg Glu Val Glu Leu Leu Leu Leu Val Leu Leu Leu Pro
 20 25 30

Thr Phe Leu Leu Thr Leu Leu Gly Asn Leu Leu Ile Ile Ser Thr Val
 35 40 45

Leu Ser Cys Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Cys Asn
 50 55 60

Leu Ser Ile Leu Asp Ile Leu Phe Thr Ser Val Ile Ser Pro Lys Val
 65 70 75 80

Leu Ala Asn Leu Gly Ser Arg Asp Lys Thr Ile Ser Phe Ala Gly Cys
 85 90 95

Ile Thr Gln Cys Tyr Phe Tyr Phe Phe Leu Gly Thr Val Glu Phe Leu
 100 105 110

Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Ala Thr Ile Cys Cys Pro
 115 120 125

Leu Arg Tyr Thr Thr Ile Met Arg Pro Ser Val Cys Ile Gly Thr Val
 130 135 140

Val Phe Ser Trp Val Gly Gly Phe Leu Ser Val Leu Phe Pro Thr Ile
 145 150 155 160

Leu Ile Ser Gln Leu Pro Phe Cys Gly Ser Asn Ile Ile Asn His Phe
 165 170 175

Phe Cys Asp Ser Gly Pro Leu Leu Ala Leu Ala Cys Ala Asp Thr Thr
 180 185 190

Ala Ile Glu Leu Met Asp Phe Met Leu Ser Ser Met Val Ile Leu Cys
 195 200 205

Cys Ile Val Leu Val Ala Tyr Ser Tyr Thr Tyr Ile Ile Leu Thr Ile
 210 215 220

Val Arg Ile Pro Ser Ala Ser Gly Arg Lys Lys Ala Phe Asn Thr Cys
 225 230 235 240

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PCT/BE01/00162

Ala Ser His Leu Thr Ile Val Ile Ile Pro Ser Gly Ile Thr Val Phe
245 250 255

Ile Tyr Val Thr Pro Ser Gln Lys Glu Tyr Leu Glu Ile Asn Lys Ile
260 265 270

Pro Leu Val Leu Ser Ser Val Val Thr Pro Phe Leu Asn Pro Phe Ile
275 280 285

Tyr Thr Leu Arg Asn Asp Thr Val Gln Gly Val Leu Arg Asp Val Trp
290 295 300

Val Arg Val Arg Gly Val Phe Glu Lys Arg Met Arg Ala Val Leu Arg
305 310 315 320

Ser Arg Leu Ser Ser Asn Lys Asp His Gln Gly Arg Ala Cys Ser Ser
325 330 335

Pro Pro Cys Val Tyr Ser Val Lys Leu Gln Cys
340 345

<210> 367
<211> 942
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(939)
<223>

<400> 367
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Met Ala Gly Glu Asn His Thr Thr Leu Pro Glu Phe Leu Leu Leu Gly
1 5 10 15
ttc tot gac ctc aag gcc ctg cag ggc ccc ctg ttc tgg gtg gtg ctt 96
Phe Ser Asp Leu Lys Ala Leu Gln Gly Pro Leu Phe Trp Val Val Leu
20 25 30
ctg gtc tac ctg gtc acc ttg ctg ggt aac tcc ctg atc atc ctc ctc 144
Leu Val Tyr Leu Val Thr Leu Leu Gly Asn Ser Leu Ile Ile Leu Leu
35 40 45
aca cag gtc agc cct gcc ctg cac tcc ccc atg tac ttc ttc ctg cgc 192
Thr Gln Val Ser Pro Ala Leu His Ser Pro Met Tyr Phe Phe Leu Arg
50 55 60
caa ctc tca gtg gtg gag ctc ttc tac acc act gac atc gtg ccc agg 240
Gln Leu Ser Val Val Glu Leu Phe Tyr Thr Thr Asp Ile Val Pro Arg
65 70 75 80
acc ctg gcc aat ctg ggc tcc ccg cat ccc cag gcc atc tot ttc cag 288

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Thr Leu Ala Asn Leu Gly Ser Pro His Pro Gln Ala Ile Ser Phe Gln
 85 90 95
 ggc tgt gca gcc cag atg tac gtc ttc att gtc ctg gcc atc tog gag 336
 Gly Cys Ala Ala Gln Met Tyr Val Phe Ile Val Leu Gly Ile Ser Glu
 100 105 110
 tgc tgc ctg ctc acg gcc atg gcc tat gac cga tat gtt gcc atc tgc 384
 Cys Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
 115 120 125
 cag ccc cta cgc tat tcc acc ctc ttg agc cca cgg gcc tgc ttg gcc 432
 Gln Pro Leu Arg Tyr Ser Thr Leu Leu Ser Pro Arg Ala Cys Leu Ala
 130 135 140
 atg gtg ggg tcc tcc tgg ctc aca ggc atc atc acg gcc acc acc cat 480
 Met Val Gly Ser Ser Trp Leu Thr Gly Ile Ile Thr Ala Thr Thr His
 145 150 155 160
 gcc tcc ctc atc ttc tct cta cct ttt cgc agc cac cgg atc atc cgg 528
 Ala Ser Leu Ile Phe Ser Leu Pro Phe Arg Ser His Pro Ile Ile Pro
 165 170 175
 cac ttt ctc tgt gac atc ctg cca gta ctg agg ctg gca agt gct ggg 576
 His Phe Leu Cys Asp Ile Leu Pro Val Leu Arg Leu Ala Ser Ala Gly
 180 185 190
 aag cac agg agc gag atc tcc gtg atg aca gcc acc ata gtc ttc att 624
 Lys His Arg Ser Glu Ile Ser Val Met Thr Ala Thr Ile Val Phe Ile
 195 200 205
 atg atc ccc ttc tct ctg att gtc acc tct tac atc cgc atc ctg ggt 672
 Met Ile Pro Phe Ser Leu Ile Val Thr Ser Tyr Ile Arg Ile Leu Gly
 210 215 220
 gcc atc cta gca atg gcc tcc acc cag agc cgc cgc aag gtc ttc tcc 720
 Ala Ile Leu Ala Met Ala Ser Thr Gln Ser Arg Arg Lys Val Phe Ser
 225 230 235 240
 acc tgc tcc tcc cat ctg ctc gtg gtc tct ctc ttc ttt gga aca gcc 768
 Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe Phe Gly Thr Ala
 245 250 255
 agc atc acc tac atc cgg ccg cag gca ggc tcc tct gtt acc aca gac 816
 Ser Ile Thr Tyr Ile Arg Pro Gln Ala Gly Ser Ser Val Thr Thr Asp
 260 265 270
 cgc gtc ctc agt ctc ttc tac aca gtc atc aca ccc atg ctc aac ccc 864
 Arg Val Leu Ser Leu Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro
 275 280 285
 atc atc tac acc ctt cgg aac aag gac gtg agg agg gcc ctg cga cac 912
 Ile Ile Tyr Thr Leu Arg Asn Lys Asp Val Arg Arg Ala Leu Arg His
 290 295 300
 ttg gtg aag agg cag cgc ccc tca ccc tga 942
 Leu Val Lys Arg Gln Arg Pro Ser Pro
 305 310

<210> 368

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<211> 313

<212> PRT

<213> Homo Sapiens

<400> 368

Met Ala Gly Glu Asn His Thr Thr Leu Pro Glu Phe Leu Leu Leu Gly
1 5 10 15

Phe Ser Asp Leu Lys Ala Leu Gln Gly Pro Leu Phe Trp Val Val Leu
20 25 30

Leu Val Tyr Leu Val Thr Leu Leu Gly Asn Ser Leu Ile Ile Leu Leu
35 40 45

Thr Gln Val Ser Pro Ala Leu His Ser Pro Met Tyr Phe Phe Leu Arg
50 55 60

Gln Leu Ser Val Val Glu Leu Phe Tyr Thr Thr Asp Ile Val Pro Arg
65 70 75 80

Thr Leu Ala Asn Leu Gly Ser Pro His Pro Gln Ala Ile Ser Phe Gln
85 90 95

Gly Cys Ala Ala Gln Met Tyr Val Phe Ile Val Leu Gly Ile Ser Glu
100 105 110

Cys Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
115 120 125

Gln Pro Leu Arg Tyr Ser Thr Leu Leu Ser Pro Arg Ala Cys Leu Ala
130 135 140

Met Val Gly Ser Ser Trp Leu Thr Gly Ile Ile Thr Ala Thr Thr His
145 150 155 160

Ala Ser Leu Ile Phe Ser Leu Pro Phe Arg Ser His Pro Ile Ile Pro
165 170 175

His Phe Leu Cys Asp Ile Leu Pro Val Leu Arg Leu Ala Ser Ala Gly
180 185 190

Lys His Arg Ser Glu Ile Ser Val Met Thr Ala Thr Ile Val Phe Ile
195 200 205

Met Ile Pro Phe Ser Leu Ile Val Thr Ser Tyr Ile Arg Ile Leu Gly
210 215 220

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Ala Ile Leu Ala Met Ala Ser Thr Gln Ser Arg Arg Lys Val Phe Ser
225 230 235 240

Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe Phe Gly Thr Ala
245 250 255

Ser Ile Thr Tyr Ile Arg Pro Gln Ala Gly Ser Ser Val Thr Thr Asp
260 265 270

Arg Val Leu Ser Leu Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro
275 280 285

Ile Ile Tyr Thr Leu Arg Asn Lys Asp Val Arg Arg Ala Leu Arg His
290 295 300

Leu Val Lys Arg Gln Arg Pro Ser Pro
305 310

<210> 359
<211> 1098
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(1095)
<223>

<220>
<221> misc feature
<222> (146)..(146)
<223> Any nucleotide

<400> 369
atg atg aca gtg att tta aaa act tta ttg gga cag ata cag ggc ctc 48
Met Met Thr Val Ile Leu Lys Thr Leu Leu Gly Gln Ile Gln Gly Leu
1 5 10 15
agt gga aac cca cac tct act acg tct aga atg tac ttt tta tgt ttc 96
Ser Gly Asn Pro His Ser Thr Thr Ser Arg Met Tyr Phe Leu Cys Phe
20 25 30
tgt act tct cta cta ggt ttt aag gta cac tgg gtc tcc aga ttg atc 144
Cys Thr Ser Leu Leu Gly Phe Lys Val His Trp Val Ser Arg Leu Ile
35 40 45
ang aaa ctt tac atg gca tct ccc aac aat gac tcc act gcc cca gtc 192
Xaa Lys Leu Tyr Met Ala Ser Pro Asn Asn Asp Ser Thr Ala Pro Val
50 55 60
tct gaa ttc ctc ctc atc tgc ttc ccc aac ttc cag agc tgg cag cac 240
Ser Glu Phe Leu Leu Ile Cys Phe Pro Asn Phe Gln Ser Trp Gln His

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65	70	75	80	
tgg ttg tct ctg ccc ctc agc ctt ctc ttc ctc ctg gcc atg gga gct	85	90	95	288
Trp Leu Ser Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Met Gly Ala				
aac acc acc ctc ctg atc acc atc cag ctg gag gcc tct ctg cac cag	100	105	110	336
Asn Thr Thr Leu Leu Ile Thr Ile Gln Leu Glu Ala Ser Leu His Gln				
ccc ctg tac tac ctg ctc agc ctc ctc tcc ctg ctg gac atc gtg ctc	115	120	125	384
Pro Leu Tyr Tyr Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu				
tgc ctc acc gtc atc ccc aag gtc ctg gcc atc ttc tgg ttt gac ctc	130	135	140	432
Cys Leu Thr Val Ile Pro Lys Val Leu Ala Ile Phe Trp Phe Asp Leu				
agg tgg atc agc ttc cca gcc tgc ttc ctc cag atg ttc atc atg aac	145	150	155	480
Arg Ser Ile Ser Phe Pro Ala Cys Phe Leu Gln Met Phe Ile Met Asn				
agt ttt ttg acc atg gag tcc tgc acg ttc atg gtc atg gcc tat gac	165	170	175	528
Ser Phe Leu Thr Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp				
cgt tat gtg gcc atc tgc cat cca ttg aga tac ccg tct atc atc act	180	185	190	576
Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr				
gac cag ttt gtg gct agg gcc gtg gtc ttt gtt ata gcc cgg aat gcc	195	200	205	624
Asp Gln Phe Val Ala Arg Ala Val Val Phe Val Ile Ala Arg Asn Ala				
ttt gtt tct ctt cct gtt ccc atg ctt tct gcc agg ctc aga tac tgt	210	215	220	672
Phe Val Ser Leu Pro Val Pro Met Leu Ser Ala Arg Leu Arg Tyr Cys				
gca gga aac ata atc aag aac tgc atc tgc agt aac ctg tct gtg tcc	225	230	235	720
Ala Gly Asn Ile Ile Lys Asn Cys Ile Cys Ser Asn Leu Ser Val Ser				
aaa ctc tct tgt gat gac atc act ttc aat cag ctc tac cag ttt gtg	245	250	255	768
Lys Leu Ser Cys Asp Asp Ile Thr Phe Asn Gln Leu Tyr Gln Phe Val				
gca ggc tgg act ctg ttg ggc tct gat ctt atc ctt att gtt atc tcc	260	265	270	816
Ala Gly Trp Thr Leu Leu Gly Ser Asp Leu Ile Leu Ile Val Ile Ser				
tat tct ttt ata ttg aaa gtt gtg ctt agg atc aag gcc gag ggt gct	275	280	285	864
Tyr Ser Phe Ile Leu Lys Val Val Leu Arg Ile Lys Ala Glu Gly Ala				
gtg gcc aag gcc ttg agc acg tgt ggt tcc cac ttc atc ctc atc ctc	290	295	300	912
Val Ala Lys Ala Leu Ser Thr Cys Gly Ser His Phe Ile Leu Ile Leu				
ttc ttc agc aca gtc ctg ctg gtt ctg gtc atc act aac ctg gcc agg	305	310	315	960
Phe Phe Ser Thr Val Leu Leu Val Leu Val Ile Thr Asn Leu Ala Arg				

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aag aga att cct cca gat gtc ccc atc ctg ctc aac atc ctg cac cac 1008
 Lys Arg Ile Pro Pro Asp Val Pro Ile Leu Leu Asn Ile Leu His His
 325 330 335

ctc att ccc cca gct ctg aac ccc att gtt tat ggt gtg aga acc aag 1056
 Leu Ile Pro Pro Ala Leu Asn Pro Ile Val Tyr Gly Val Arg Thr Lys
 340 345 350

gag atc aag cag gga atc caa aac ctg ctg aag agg ttg taa 1098
 Glu Ile Lys Gln Gly Ile Gln Asn Leu Leu Lys Arg Leu
 355 360 365

<210> 370

<211> 365

<212> PRT

<213> Homo Sapiens

<220>

<221> misc_feature

<222> (48)..(49)

<223> The 'Xaa' at location 49 stands for Lys, Arg, Thr, or Met.

<220>

<221> misc_feature

<222> (146)..(146)

<223> Any nucleotide

<400> 370

Met Met Thr Val Ile Leu Lys Thr Leu Leu Gly Gln Ile Gln Gly Leu
 1 5 10 15

Ser Gly Asn Pro His Ser Thr Thr Ser Arg Met Tyr Phe Leu Cys Rhe
 20 25 30

Cys Thr Ser Leu Leu Gly Phe Lys Val His Trp Val Ser Arg Leu Ile
 35 40 45

Xaa Lys Leu Tyr Met Ala Ser Pro Asn Asn Asp Ser Thr Ala Pro Val
 50 55 60

Ser Glu Phe Leu Leu Ile Cys Phe Pro Asn Phe Gln Ser Trp Gln His
 65 70 75 80

Trp Leu Ser Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Met Gly Ala
 85 90 95

Asn Thr Thr Leu Leu Ile Thr Ile Gln Leu Glu Ala Ser Leu His Gln
 100 105 110

Pro Leu Tyr Tyr Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu
 115 120 125

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Cys Leu Thr Val Ile Pro Lys Val Leu Ala Ile Phe Trp Phe Asp Leu
 130 135 140
 Arg Ser Ile Ser Phe Pro Ala Cys Phe Leu Gln Met Phe Ile Met Asn
 145 150 155 160
 Ser Phe Leu Thr Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp
 165 170 175
 Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr
 180 185 190
 Asp Gln Phe Val Ala Arg Ala Val Val Phe Val Ile Ala Arg Asn Ala
 195 200 205
 Phe Val Ser Leu Pro Val Pro Met Leu Ser Ala Arg Leu Arg Tyr Cys
 210 215 220
 Ala Gly Asn Ile Ile Lys Asn Cys Ile Cys Ser Asn Leu Ser Val Ser
 225 230 235 240
 Lys Leu Ser Cys Asp Asp Ile Thr Phe Asn Gln Leu Tyr Gln Phe Val
 245 250 255
 Ala Gly Trp Thr Leu Leu Gly Ser Asp Leu Ile Leu Ile Val Ile Ser
 260 265 270
 Tyr Ser Phe Ile Leu Lys Val Val Leu Arg Ile Lys Ala Glu Gly Ala
 275 280 285
 Val Ala Lys Ala Leu Ser Thr Cys Gly Ser His Phe Ile Leu Ile Leu
 290 295 300
 Phe Phe Ser Thr Val Leu Leu Val Leu Val Ile Thr Asn Leu Ala Arg
 305 310 315 320
 Lys Arg Ile Pro Pro Asp Val Pro Ile Leu Leu Asn Ile Leu His His
 325 330 335
 Leu Ile Pro Pro Ala Leu Asn Pro Ile Val Tyr Gly Val Arg Thr Lys
 340 345 350
 Glu Ile Lys Gln Gly Ile Gln Asn Leu Leu Lys Arg Leu
 355 360 365

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<210> 371
 <211> 957
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(954)
 <223>

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<400> 371
atg att cag cct atg gcg tca ccc agc aac agc tcc act gtc cca gtc      48
Met Ile Gln Pro Met Ala Ser Pro Ser Asn Ser Ser Thr Val Pro Val
1          5          10          15

tct gaa ttc ctc ctc acc tgc ttc ccc aac ttc cag agt tgg cag cac      96
Ser Glu Phe Leu Leu Thr Cys Phe Pro Asn Phe Gln Ser Trp Gln His
20         25         30

tgg ctc tcc ctg ccc ctc agc ctt ctc ttc ctc ctg gcc atg gga get     144
Trp Leu Ser Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Met Gly Ala
35         40         45

aac acc acc ctc ctg atc acc atc cag ctg gag gcc tct ctg cac cag     192
Asn Thr Thr Leu Leu Ile Thr Ile Gln Leu Glu Ala Ser Leu His Gln
50         55         60

ccc ctg tac tac ctg ctc agc ctc ctc tcc ctg ctg gac atc gtg ctc     240
Pro Leu Tyr Tyr Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu
65         70         75

tgc ctc acc gtc atc ccc aag gtc ctg gcc atc ttc tgg tat gat ctt     288
Cys Leu Thr Val Ile Pro Lys Val Leu Ala Ile Phe Trp Tyr Asp Leu
85         90         95

agg tgc atc agc ttc cct gcc tgc ttc ctc cag atg ttc atc atg aac     336
Arg Ser Ile Ser Phe Pro Ala Cys Phe Leu Gln Met Phe Ile Met Asn
100        105        110

agt ttc ctc ccc atg gag tcc tgc acg ttt atg gtc atg gcc tat gac     384
Ser Phe Leu Pro Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp
115        120        125

cgt tat gtg gcc atc tgc cac cca ctg cgg tac cca tcc atc atc act     432
Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr
130        135        140

aat caa ttt gtg gcc aaa gct agt gtc ttc att gtg gtg cgg aat gag     480
Asn Gln Phe Val Ala Lys Ala Ser Val Phe Ile Val Val Arg Asn Ala
145        150        155        160

ctt ctt act gca ccc att cct atc ctc act tcc ctg ctc cat tac tgt     528
Leu Leu Thr Ala Pro Ile Pro Ile Leu Thr Ser Leu Leu His Tyr Cys
165        170        175

ggg gaa aat gtc att gag aac tgc atc tgt gcc aac ttg tct gtg tcc     576
Gly Glu Asn Val Ile Glu Asn Cys Ile Cys Ala Asn Leu Ser Val Ser
180        185        190

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agg ctc tcc tgt gat aat ttc acc ctt aac aga atc tac caa ttt gtg      624
Arg Leu Ser Cys Asp Asn Phe Thr Leu Asn Arg Ile Tyr Gln Phe Val
195                      200                      205

gct ggt tgg acc ttg ctg ggc tca gat tta ttc ctc atc ttc ctc tct      672
Ala Gly Trp Thr Leu Leu Gly Ser Asp Leu Phe Leu Ile Phe Leu Ser
210                      215                      220

tac acc ttc att cta aga gct gtg ctt aga ttc aaa gca gag ggg gcg      720
Tyr Thr Phe Ile Leu Arg Ala Val Leu Arg Phe Lys Ala Glu Gly Ala
235                      230                      235                      240

gca gtg aag gcc ctg agc aca tgt ggc tcc cac ttc atc ctc att ctt      768
Ala Val Lys Ala Leu Ser Thr Cys Gly Ser His Phe Ile Leu Ile Leu
245                      250                      255

ttc ttc agc acc ata ctg ctg gtt gtg gtg ttg aca aac gtg gcc aga      816
Phe Phe Ser Thr Ile Leu Leu Val Val Val Leu Thr Asn Val Ala Arg
260                      265                      270

aag aag gtc ccc atg gac atc ctg atc ctg ctg aac gtc ctt cat cac      864
Lys Lys Val Pro Met Asp Ile Leu Ile Leu Leu Asn Val Leu His His
275                      280                      285

ctt att cct cct gcg ttg aac cct att gtg tat ggg gtt cgg acc aaa      912
Leu Ile Pro Pro Ala Leu Asn Pro Ile Val Tyr Gly Val Arg Thr Lys
290                      295                      300

gag ata aaa cag gga att cag aag tta ctg cag aga ggg agg tga      957
Glu Ile Lys Gln Gly Ile Gln Lys Leu Leu Gln Arg Gly Arg
305                      310                      315

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<210> 372
 <211> 318
 <212> PPT
 <213> Homo Sapiens

<400> 372

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Met Ile Gln Pro Met Ala Ser Pro Ser Asn Ser Ser Thr Val Pro Val
1                      5                      10                      15

Ser Glu Phe Leu Leu Thr Cys Phe Pro Asn Phe Gln Ser Trp Gln His
30                      35                      40                      45

Trp Leu Ser Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Met Gly Ala
35                      40                      45

Asn Thr Thr Leu Leu Ile Thr Ile Gln Leu Glu Ala Ser Leu His Gln
50                      55                      60

Pro Leu Tyr Tyr Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu
65                      70                      75                      80

Cys Leu Thr Val Ile Pro Lys Val Leu Ala Ile Phe Trp Tyr Asp Leu

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85 90 95
 Arg Ser Ile Ser Phe Pro Ala Cys Phe Leu Gln Met Phe Ile Met Asn
 100 105 110
 Ser Phe Leu Pro Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp
 115 120 125
 Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr
 130 135 140
 Asn Gln Phe Val Ala Lys Ala Ser Val Phe Ile Val Val Arg Asn Ala
 145 150 155 160
 Leu Leu Thr Ala Pro Ile Pro Ile Leu Thr Ser Leu Leu His Tyr Cys
 165 170 175
 Gly Glu Asn Val Ile Glu Asn Cys Ile Cys Ala Asn Leu Ser Val Ser
 180 185 190
 Arg Leu Ser Cys Asp Asn Phe Thr Leu Asn Arg Ile Tyr Gln Phe Val
 195 200 205
 Ala Gly Trp Thr Leu Leu Gly Ser Asp Leu Phe Leu Ile Phe Leu Ser
 210 215 220
 Tyr Thr Phe Ile Leu Arg Ala Val Leu Arg Phe Lys Ala Glu Gly Ala
 225 230 235 240
 Ala Val Lys Ala Leu Ser Thr Cys Gly Ser His Phe Ile Leu Ile Leu
 245 250 255
 Phe Phe Ser Thr Ile Leu Leu Val Val Val Leu Thr Asn Val Ala Arg
 260 265 270
 Lys Lys Val Pro Met Asp Ile Leu Ile Leu Leu Asn Val Leu His His
 275 280 285
 Leu Ile Pro Pro Ala Leu Asn Pro Ile Val Tyr Gly Val Arg Thr Lys
 290 295 300
 Glu Ile Lys Gln Gly Ile Gln Lys Leu Leu Gln Arg Gly Arg
 305 310 315
 <210> 373
 <211> 990

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<212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(987)
 <223>

<400> 373
 atg act ttg gtt tct ttt ttc tct ttc ctc tcc aag cca ttg ata atg 48
 Met Thr Leu Val Ser Phe Phe Ser Phe Leu Ser Lys Pro Leu Ile Met
 1 5 10 15
 ctc ctt agc aat tca agc tgg agg cta tcc sag cct tct ttt ctc ctg 96
 Leu Leu Ser Asn Ser Ser Trp Arg Leu Ser Gln Pro Ser Phe Leu Leu
 20 25 30
 gta ggg att cca ggt tta gag gaa agc cag cac tgg att gca ctg ccc 144
 Val Gly Ile Pro Gly Leu Glu Ser Gln His Trp Ile Ala Leu Pro
 35 40 45
 ctg ggc atc ctt tac ctc ctt gct tta gtg ggc aat gtt acc att ctc 192
 Leu Gly Ile Leu Tyr Leu Leu Ala Leu Val Gly Asn Val Thr Ile Leu
 50 55 60
 ttc atc atc tgg atg gac cca tcc ttg cac caa tct atg tac ctc ttc 240
 Phe Ile Ile Trp Met Asp Pro Ser Leu His Gln Ser Met Tyr Leu Phe
 65 70 75 80
 ctg tcc atg cta gct gcc atc gac ctg gtt ctg gcc tcc tcc act gca 288
 Leu Ser Met Leu Ala Ala Ile Asp Leu Val Leu Ala Ser Ser Thr Ala
 85 90 95
 ccc aaa gcc ctt gca gtg ctc ctg gtt cat gcc cac gag att ggg tac 336
 Pro Lys Ala Leu Ala Val Leu Leu Val His Ala His Glu Ile Gly Tyr
 100 105 110
 atc gtc tgc ctg atc cag atg ttc ttc atc cat gca ttc tcc tcc atg 384
 Ile Val Cys Leu Ile Gln Met Phe Phe Ile His Ala Phe Ser Ser Met
 115 120 125
 gag tca ggg gta ctt gtg gcc atg gct ctg gat cgc tat gta gcc att 432
 Glu Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala Ile
 130 135 140
 tgt cac ccc ttg cac cat tcc aca atc ctg cat cca ggg gtc ata ggg 480
 Cys His Pro Leu His His Ser Thr Ile Leu His Pro Gly Val Ile Gly
 145 150 155 160
 cgc atc gga atg gtg gtg ctg gtg agg gga tta cta ctc ctt atc ccc 528
 Arg Ile Gly Met Val Val Leu Val Arg Gly Leu Leu Leu Ile Pro
 165 170 175
 ttc ccc att ttg ttg gga aca ctt atc ttc tgc caa gcc acc atc ata 576
 Phe Pro Ile Leu Leu Gly Thr Leu Ile Phe Cys Gln Ala Thr Ile Ile
 180 185 190
 ggc cat gcc tat tgt gaa cat atg gct gtt gtg aaa ctt gcc tgc tca 624
 Gly His Ala Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys Ser
 195 200 205

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gaa acc aca gtc aat cga gct tat ggg ctg act atg gcc ttg ctt gtg      672
Glu Thr Thr Val Asn Arg Ala Tyr Gly Leu Thr Met Ala Leu Leu Val
210                215                220

att ggg ctg gat gtt ctg gcc att ggt gtt tcc tat gcc cag atc ctc      720
Ile Gly Leu Asp Val Leu Ala Ile Gly Val Ser Tyr Ala His Ile Leu
225                230                235                240

cag gca gtg ctg aag gta cca ggg agt gag gcc cga ctt aag gcy ttt      768
Gln Ala Val Leu Lys Val Pro Gly Ser Glu Ala Arg Leu Lys Ala Phe
245                250                255

agc aca tgt ggc tct cat att tgt gtc atc ctg gtc ttc tat gtc cgt      816
Ser Thr Cys Gly Ser His Ile Cys Val Ile Leu Val Phe Tyr Val Pro
260                265                270

gga att ttc tcc ttc ctc act cag cgc ttt ggt cat cat gta ccc cat      864
Gly Ile Phe Ser Phe Leu Thr His Arg Phe Gly His His Val Pro His
275                280                285

cat gtc cat gtt ctt ctg gcc aca cgg tat ctc ctc atg cca cct gcg      912
His Val His Val Leu Leu Ala Thr Arg Tyr Leu Leu Met Pro Pro Ala
290                295                300

ctc aat cct ctt gtc tat gga gtg aag act cag cag atc cgt cag cga      960
Leu Asn Pro Leu Val Tyr Gly Val Lys Thr Gln Gln Ile Arg Glu Arg
305                310                315                320

gtg ctc aga gtg ttt aca caa aag gat tga      990
Val Leu Arg Val Phe Thr Gln Lys Asp
325

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<210> 374
 <211> 329
 <212> PRT
 <213> Homo Sapiens

<400> 374

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Met Thr Leu Val Ser Phe Phe Ser Phe Leu Ser Lys Pro Leu Ile Met
1      5      10      15

Leu Leu Ser Asn Ser Ser Trp Arg Leu Ser Gln Pro Ser Phe Leu Leu
20     25     30

Val Gly Ile Pro Gly Leu Glu Glu Ser Gln His Trp Ile Ala Leu Pro
35     40     45

Leu Gly Ile Leu Tyr Leu Leu Ala Leu Val Gly Asn Val Thr Ile Leu
50     55     60

Phe Ile Ile Trp Met Asp Pro Ser Leu His Gln Ser Met Tyr Leu Phe
65     70     75     80

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Leu Ser Met Leu Ala Ala Ile Asp Leu Val Leu Ala Ser Ser Thr Ala
 85 90 95
 Pro Lys Ala Leu Ala Val Leu Leu Val His Ala His Glu Ile Gly Tyr
 100 105 110
 Ile Val Cys Leu Ile Gln Met Phe Phe Ile His Ala Phe Ser Ser Met
 115 120 125
 Glu Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala Ile
 130 135 140
 Cys His Pro Leu His His Ser Thr Ile Leu His Pro Gly Val Ile Gly
 145 150 155 160
 Arg Ile Gly Met Val Val Leu Val Arg Gly Leu Leu Leu Ile Pro
 165 170 175
 Phe Pro Ile Leu Leu Gly Thr Leu Ile Phe Cys Gln Ala Thr Ile Ile
 180 185 190
 Gly His Ala Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys Ser
 195 200 205
 Glu Thr Thr Val Asn Arg Ala Tyr Gly Leu Thr Met Ala Leu Leu Val
 210 215 220
 Ile Gly Leu Asp Val Leu Ala Ile Gly Val Ser Tyr Ala His Ile Leu
 225 230 235 240
 Gln Ala Val Leu Lys Val Pro Gly Ser Glu Ala Arg Leu Lys Ala Phe
 245 250 255
 Ser Thr Cys Gly Ser His Ile Cys Val Ile Leu Val Phe Tyr Val Pro
 260 265 270
 Gly Ile Phe Ser Phe Leu Thr His Arg Phe Gly His His Val Pro His
 275 280 285
 His Val His Val Leu Leu Ala Thr Arg Tyr Leu Leu Met Pro Pro Ala
 290 295 300
 Leu Asn Pro Leu Val Tyr Gly Val Lys Thr Gln Gln Ile Arg Gln Arg
 305 310 315 320
 Val Leu Arg Val Phe Thr Gln Lys Asp

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325

<210> 375
 <211> 560
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(957)
 <223>

<400> 375
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 Met Asn Leu Asp Ser Phe Phe Ser Phe Leu Leu Lys Ser Leu Ile Met
 1 5 10 15
 gca ctt agc aat tcc age tgg agg cta ccc cag cct tct ttt ttc ctg 96
 Ala Leu Ser Asn Ser Ser Trp Arg Leu Pro Gln Pro Ser Phe Phe Leu
 20 25 30
 gta gga att cgg ggt tta gag gaa agc cag cac tgg atc gca ctg ccc 144
 Val Gly Ile Pro Gly Leu Glu Glu Ser Gln His Trp Ile Ala Leu Pro
 35 40 45
 ctg ggc atc ctt tac ctc ctt gct cta gtg ggc aat gtt acc att ctc 192
 Leu Gly Ile Leu Tyr Leu Leu Ala Leu Val Gly Asn Val Thr Ile Leu
 50 55 60
 ttc atc atc tgg atg gac cca tcc ttg cac caa tct atg tac ctc ttc 240
 Phe Ile Ile Trp Met Asp Pro Ser Leu His Gln Ser Met Tyr Leu Phe
 65 70 75 80
 ctg tcc atg cta gct gcc atc gac ctg gtt gtg gcc tcc tcc act gca 288
 Leu Ser Met Leu Ala Ala Ile Asp Leu Val Val Ala Ser Ser Thr Ala
 85 90 95
 ccc aaa gcc ctt gca gtg ctc ctg gtt cgt gcc caa gag att ggt tac 336
 Pro Lys Ala Leu Ala Val Leu Leu Val Arg Ala Gln Glu Ile Gly Tyr
 100 105 110
 act gtc tgc ctg atc cag atg ttc ttc acc cat gca ttc tcc tcc atg 384
 Thr Val Cys Leu Ile Gln Met Phe Phe Thr His Ala Phe Ser Ser Met
 115 120 125
 gag tca ggg gta ctt gtg gcc atg gct ctg gat cgc tat gta gcc att 432
 Glu Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala Ile
 130 135 140
 tgt cac ccc ttg cac cat tcc aca atc ctg cat cca ggg gtc ata ggg 480
 Cys His Pro Leu His His Ser Thr Ile Leu His Pro Gly Val Ile Gly
 145 150 155 160
 cac atc gga atg gtg gtg ctg gtg cgg gga tta cta ctc ctc atc ccc 528
 His Ile Gly Met Val Val Leu Val Arg Gly Leu Leu Leu Leu Ile Pro
 165 170 175
 ttc ctc att ctg ttg cga aaa ctt atc ttc tgc caa gcc acc atc ata 576
 Phe Leu Ile Leu Leu Arg Lys Leu Ile Phe Cys Gln Ala Thr Ile Ile

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180      185      190
ggc cat gcc tat tgt gaa cat atg gct gtt gtg aaa ctt gcc tgc tca      624
Gly His Ala Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys Ser
195      200      205

gaa acc aca gtc aat cga gct tat ggg ctg act gtg gcc ttg ctt gtg      672
Glu Thr Thr Val Asn Arg Ala Tyr Gly Leu Thr Val Ala Leu Leu Val
210      215      220

gtt ggg ctg gat gtc ctg gcc att ggt gtt tcc tat gcc cac att ctc      720
Val Gly Leu Asp Val Leu Ala Ile Gly Val Ser Tyr Ala His Ile Leu
225      230      235

cag gca gtg ctg aag gta cca gga aat gag gcc cga ctt aag gcc ttt      768
Gln Ala Val Leu Lys Val Pro Gly Asn Glu Ala Arg Leu Lys Ala Phe
245      250      255

agc aca tgt gcc tct cat gtt tgt gtc atc ctg gtc ttc tat atc cag      816
Ser Thr Cys Gly Ser His Val Cys Val Ile Leu Val Phe Tyr Ile Pro
260      265      270

gga atg ttc tcc ttc ctc act cgc cgc ttt ggt cat cat gta ccc cat      864
Gly Met Phe Ser Phe Leu Thr His Arg Phe Gly His His Val Pro His
275      280      285

cac gtc cat gtt ctt ctg gcc ata ctg tat cgc ctt gtg cca cct gca      912
His Val His Val Leu Leu Ala Ile Leu Tyr Arg Leu Val Pro Pro Ala
290      295      300

ctc aat cct ctt gtc tat agg gtg aag acc cag aag atc cgc cag tga      960
Leu Asn Pro Leu Val Tyr Arg Val Lys Thr Gln Lys Ile His Gln
305      310      315

<310> 376
<311> 319
<212> PRT
<213> Homo Sapiens

<400> 376
Met Asn Leu Asp Ser Phe Phe Ser Phe Leu Leu Lys Ser Leu Ile Met
1      5      10      15

Ala Leu Ser Asn Ser Ser Trp Arg Leu Pro Gln Pro Ser Phe Phe Leu
20      25      30

Val Gly Ile Pro Gly Leu Glu Glu Ser Gln His Trp Ile Ala Leu Pro
35      40      45

Leu Gly Ile Leu Tyr Leu Leu Ala Leu Val Gly Asn Val Thr Ile Leu
50      55      60

Phe Ile Ile Trp Met Asp Pro Ser Leu His Gln Ser Met Tyr Leu Phe
65      70      75      80

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Leu Ser Met Leu Ala Ala Ile Asp Leu Val Val Ala Ser Ser Thr Ala
 85 90 95
 Pro Lys Ala Leu Ala Val Leu Leu Val Arg Ala Gln Glu Ile Gly Tyr
 100 105 110
 Thr Val Cys Leu Ile Gln Met Phe Phe Thr His Ala Phe Ser Ser Met
 115 120 125
 Glu Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala Ile
 130 135 140
 Cys His Pro Leu His His Ser Thr Ile Leu His Pro Gly Val Ile Gly
 145 150 155 160
 His Ile Gly Met Val Val Leu Val Arg Gly Leu Leu Leu Ile Pro
 165 170 175
 Phe Leu Ile Leu Leu Arg Lys Leu Ile Phe Cys Gln Ala Thr Ile Ile
 180 185 190
 Gly His Ala Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys Ser
 195 200 205
 Glu Thr Thr Val Asn Arg Ala Tyr Gly Leu Thr Val Ala Leu Leu Val
 210 215 220
 Val Gly Leu Asp Val Leu Ala Ile Gly Val Ser Tyr Ala His Ile Leu
 225 230 235 240
 Gln Ala Val Leu Lys Val Pro Gly Asn Glu Ala Arg Leu Lys Ala Phe
 245 250 255
 Ser Thr Cys Gly Ser His Val Cys Val Ile Leu Val Phe Tyr Ile Pro
 260 265 270
 Gly Met Phe Ser Phe Leu Thr His Arg Phe Gly His His Val Pro His
 275 280 285
 His Val His Val Leu Leu Ala Ile Leu Tyr Arg Leu Val Pro Pro Ala
 290 295 300
 Leu Asn Pro Leu Val Tyr Arg Val Lys Thr Gln Lys Ile His Gln
 305 310 315

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PCT/BE01/00162

<210> 377
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 <212> DNA
 <213> Homo Sapiens
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 <221> CDS
 <222> (1)..(942)
 <223>

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 Met Ser Ala Ser Asn Ile Thr Leu Thr His Pro Thr Ala Phe Leu Leu
 1 5 10 15
 gtg ggg att cca ggc ctg gaa cac ctg cac atc tgg atc tcc atc cct 96
 Val Gly Ile Pro Gly Leu Glu His Leu His Ile Trp Ile Ser Ile Pro
 20 25 30
 ttc tgc tta gca tat aca ctg gcc ctg ctt gga aac tgc act ctc ctt 144
 Phe Cys Leu Ala Tyr Thr Leu Ala Leu Leu Gly Asn Cys Thr Leu Leu
 35 40 45
 ctc atc atc cag gct gat gca gcc ctc cat gaa ccc atg tac ctc ttt 192
 Leu Ile Ile Gln Ala Asp Ala Ala Leu His Glu Pro Met Tyr Leu Phe
 50 55 60
 ctg gcc atg ttg gca gcc atc gac ctg gtc ctt tcc tcc tca gca ctg 240
 Leu Ala Met Leu Ala Ala Ile Asp Leu Val Leu Ser Ser Ser Ala Leu
 65 70 75 80
 ccc aaa atg ctt gcc ata ttc tgg ttc agg gat cgg gag ata aac ttc 288
 Pro Lys Met Leu Ala Ile Phe Tyr Phe Arg Asp Arg Glu Ile Asn Phe
 85 90 95
 ttt gcc tgt ctg gcc cag atg ttc ttc ctt cac tcc ttc tcc atc atg 336
 Phe Ala Cys Leu Ala Gln Met Phe Phe Leu His Ser Phe Ser Ile Met
 100 105 110
 gag tca gca gtg ctg ctg gcc atg gcc ttt gac cgc tat gtg gct atc 384
 Glu Ser Ala Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
 115 120 125
 tgc aag cca ctg cac tac acc aag gtc ctg act ggg tcc ctc atc acc 432
 Cys Lys Pro Leu His Tyr Thr Lys Val Leu Thr Gly Ser Leu Ile Thr
 130 135 140
 aag att ggc atg gct gct gtg gcc cgg gct gtg aca cta atg act cca 480
 Lys Ile Gly Met Ala Ala Val Ala Arg Ala Val Thr Leu Met Thr Pro
 145 150 155 160
 ctc ccc ttc ctg ctg aga tgt ttc cac tac tgc cga ggc cca gtg atc 528
 Leu Pro Phe Leu Leu Arg Cys Phe His Tyr Cys Arg Gly Pro Val Ile
 165 170 175
 gct cac tgc tac tgt gaa cac atg gct gtg gtg agg ctg gcg tgt ggg 576
 Ala His Cys Tyr Cys Glu His Met Ala Val Val Arg Leu Ala Cys Gly
 180 185 190
 gac act agc ttc aac aat atc tat ggc atc gct gtg gcc atg ttt att 624

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PCT/BE01/00162

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Asp Thr Ser Phe Asn Asn Ile Tyr Gly Ile Ala Val Ala Met Phe Ile
195                200                205

gtg gtg ttg gac ctg ctc ctt gtt atc ctg tct tat atc ttt att ctt      672
Val Val Leu Asp Leu Leu Val Ile Leu Ser Tyr Ile Phe Ile Leu
210                215                220

cag gca gtt cta ctg ctt gcc tct cag gag gcc cac tac aag gca ttt      720
Gln Ala Val Leu Leu Leu Ala Ser Gln Glu Ala His Tyr Lys Ala Phe
225                230                235                240

ggg aca tgt gtc tct cat ata ggt gcc atc tta gcc ttc tac aca act      768
Gly Thr Cys Val Ser His Ile Gly Ala Ile Leu Ala Phe Tyr Thr Thr
245                250                255

gtg gtc atc tct tca gtc atg cac cgt gta gcc cgc cat gct gcc cct      816
Val Val Ile Ser Ser Val Met His Arg Val Ala Arg His Ala Ala Pro
260                265                270

cat gtc cac atc ctc ctt gcc aat ttc tat ctg ctc ttc cca ccc atg      864
His Val His Ile Leu Leu Ala Asn Phe Tyr Leu Leu Phe Pro Pro Met
275                280                285

gtc aat ccc ata atc tat ggt gtc aag acc aag caa atc cgt gag agc      912
Val Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Ser
290                295                300

atc ttg gga gta ttc cca aga aag gat atg tag      945
Ile Leu Gly Val Phe Pro Arg Lys Asp Met
305                310

<210> 378
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 378

Met Ser Ala Ser Asn Ile Thr Leu Thr His Pro Thr Ala Phe Leu Leu
1          5          10          15

Val Gly Ile Pro Gly Leu Glu His Leu His Ile Trp Ile Ser Ile Pro
20          25          30

Phe Cys Leu Ala Tyr Thr Leu Ala Leu Leu Gly Asn Cys Thr Leu Leu
35          40          45

Leu Ile Ile Gln Ala Asp Ala Ala Leu His Glu Pro Met Tyr Leu Phe
50          55          60

Leu Ala Met Leu Ala Ala Ile Asp Leu Val Leu Ser Ser Ser Ala Leu
65          70          75          80

Pro Lys Met Leu Ala Ile Phe Trp Phe Arg Asp Arg Glu Ile Asn Phe
85          90          95

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PCT/BE01/00162

Phe Ala Cys Leu Ala Gln Met Phe Phe Leu His Ser Phe Ser Ile Met
 100 105 110
 Glu Ser Ala Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys Lys Pro Leu His Tyr Thr Lys Val Leu Thr Gly Ser Leu Ile Thr
 130 135 140
 Lys Ile Gly Met Ala Ala Val Ala Arg Ala Val Thr Leu Met Thr Pro
 145 150 155 160
 Leu Pro Phe Leu Leu Arg Cys Phe His Tyr Cys Arg Gly Pro Val Ile
 165 170 175
 Ala His Cys Tyr Cys Glu His Met Ala Val Val Arg Leu Ala Cys Gly
 180 185 190
 Asp Thr Ser Phe Asn Asn Ile Tyr Gly Ile Ala Val Ala Met Phe Ile
 195 200 205
 Val Val Leu Asp Leu Leu Leu Val Ile Leu Ser Tyr Ile Phe Ile Leu
 210 215 220
 Gln Ala Val Leu Leu Leu Ala Ser Gln Glu Ala His Tyr Lys Ala Phe
 225 230 235 240
 Gly Thr Cys Val Ser His Ile Gly Ala Ile Leu Ala Phe Tyr Thr Thr
 245 250 255
 Val Val Ile Ser Ser Val Met His Arg Val Ala Arg His Ala Ala Pro
 260 265 270
 His Val His Ile Leu Leu Ala Asn Phe Tyr Leu Leu Phe Pro Pro Met
 275 280 285
 Val Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Ser
 290 295 300
 Ile Leu Gly Val Phe Pro Arg Lys Asp Met
 305 310

<210> 379

<211> 945

<212> DNA

WO 02/24726

PCT/BE01/00162

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(942)

<223>

<400> 379

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atg ctt ccc tct aat atc acc tca aca cat cca gct gtc ttt ttg ttg      48
Met Leu Pro Ser Asn Ile Thr Ser Thr His Pro Ala Val Phe Leu Leu
1      5      10      15

gta gga att cct ggt ttg gaa cac ctg cat ggc tgg atc tcc atc ccc      96
Val Gly Ile Pro Gly Leu Glu His Leu His Ala Trp Ile Ser Ile Pro
20     25     30

ttc tgc ttt gct tat act ctg gcc ctg cta ggc aac tgt acc ctt ctc     144
Phe Cys Phe Ala Tyr Thr Leu Ala Leu Leu Gly Asn Cys Thr Leu Leu
35     40     45

ttc att atc cgg gct gat gca gcc ctg cat gaa ccc atg tcc ctc ttt     192
Phe Ile Ile Arg Ala Asp Ala Ala Leu His Glu Pro Met Tyr Leu Phe
50     55     60

ctg gcc atg ttg gca acc att gac ttg gtt ctt tct tct aca acg ctg     240
Leu Ala Met Leu Ala Thr Ile Asp Leu Val Leu Ser Ser Thr Thr Leu
65     70     75     80

ccc aaa atg ctt gcc ata ttc tgg ttc agg gat cag gag atc aac ttc     288
Pro Lys Met Leu Ala Ile Phe Trp Phe Arg Asp Gln Glu Ile Asn Phe
85     90     95

ttt gcc tgt ctg gtc cag atg ttc ttc ctt cac tcc ttc tcc atc atg     336
Phe Ala Cys Leu Val Gln Met Phe Phe Leu His Ser Phe Ser Ile Met
100    105    110

gag tca gca gtg ctg ctg gcc atg gcc ttt gac cgc tat gtg gcc atc     384
Glu Ser Ala Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
115    120    125

tgc aag cca ttg cac tac acg acg gtc ctg act ggg tcc ctc atc acc     432
Cys Lys Pro Leu His Tyr Thr Thr Val Leu Thr Gly Ser Leu Ile Thr
130    135    140

aag att ggc atg gct gct gtg gcc tgg gct gtg aca cta atg act cca     480
Lys Ile Gly Met Ala Ala Val Ala Trp Ala Val Thr Leu Met Thr Pro
145    150    155    160

ctc ccc ttc ctg ctc aga cgc ttc cac tac tgc cga ggc cca gtg att     528
Leu Pro Phe Leu Leu Arg Arg Phe His Tyr Cys Arg Gly Pro Val Ile
165    170    175

gcc cat tgc tac tgt gaa cac atg gct gtg gta agg ctg gcg tgt ggg     576
Ala His Cys Tyr Cys Glu His Met Ala Val Val Arg Leu Ala Cys Gly
180    185    190

gac act agc ttc aac aat atc tat ggc att gct gtg gcc atg ttt att     624
Asp Thr Ser Phe Asn Asn Ile Tyr Gly Ile Ala Val Ala Met Phe Ile
195    200    205

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PCT/BE01/00162

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gtg ggg tgg gac ctg etc ttt gtt atc ctg tct tat gtc ttc atc ctt      672
Val Val Leu Asp Leu Leu Phe Val Ile Leu Ser Tyr Val Phe Ile Leu
210                215                220

cag gca gtt etc cag ctt gcc tct cag gag gcc cgc tac aag gca ttt      720
Gln Ala Val Leu Gln Leu Ala Ser Gln Glu Ala Arg Tyr Lys Ala Phe
225                230                235                240

ggg aca tgt gtg tct cac ata ggt gcc atc ctg tcc acc tac act cca      768
Gly Thr Cys Val Ser His Ile Gly Ala Ile Leu Ser Thr Tyr Thr Pro
245                250                255

gta gtc atc tct tca gtc atg cac cgt gta gcc cgc cat gct gcc cct      816
Val Val Ile Ser Ser Val Met His Arg Val Ala Arg His Ala Ala Pro
260                265                270

cgt gtc cac ata ctg ctt gct att ttc tat etc ctt ttc cca ccc atg      864
Arg Val His Ile Leu Leu Ala Ile Phe Tyr Leu Leu Phe Pro Pro Met
275                280                285

gtc aat cct atc ata tat gga gtc aag acc aag cag att cgt gag tat      912
Val Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Tyr
290                295                300

gtg ctg agt cta ttc cag aga aag aac atg tag      945
Val Leu Ser Leu Phe Gln Arg Lys Asn Met
305                310

<210> 380
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 380
Met Leu Pro Ser Asn Ile Thr Ser Thr His Pro Ala Val Phe Leu Leu
1      5      10      15

Val Gly Ile Pro Gly Leu Glu His Leu His Ala Trp Ile Ser Ile Pro
20      25      30

Phe Cys Phe Ala Tyr Thr Leu Ala Leu Leu Gly Asn Cys Thr Leu Leu
35      40      45

Phe Ile Ile Arg Ala Asp Ala Ala Leu His Glu Pro Met Tyr Leu Phe
50      55      60

Leu Ala Met Leu Ala Thr Ile Asp Leu Val Leu Ser Ser Thr Thr Leu
65      70      75      80

Pro Lys Met Leu Ala Ile Phe Trp Phe Arg Asp Gln Glu Ile Asn Phe
85      90      95

Phe Ala Cys Leu Val Gln Met Phe Phe Leu His Ser Phe Ser Ile Met

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WO 02/24726

PCT/BE01/00162

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100              105              110
Glu Ser Ala Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
115              120              125
Cys Lys Pro Leu His Tyr Thr Thr Val Leu Thr Gly Ser Leu Ile Thr
130              135              140
Lys Ile Gly Met Ala Ala Val Ala Trp Ala Val Thr Leu Met Thr Pro
145              150              155              160
Leu Pro Phe Leu Leu Arg Arg Phe His Tyr Cys Arg Gly Pro Val Ile
165              170              175
Ala His Cys Tyr Cys Gln His Met Ala Val Val Arg Leu Ala Cys Gly
180              185              190
Asp Thr Ser Phe Asn Asn Ile Tyr Gly Ile Ala Val Ala Met Phe Ile
195              200              205
Val Val Leu Asp Leu Leu Phe Val Ile Leu Ser Tyr Val Phe Ile Leu
210              215              220
Gln Ala Val Leu Gln Leu Ala Ser Gln Glu Ala Arg Tyr Lys Ala Phe
225              230              235              240
Gly Thr Cys Val Ser His Ile Gly Ala Ile Leu Ser Thr Tyr Thr Pro
245              250              255
Val Val Ile Ser Ser Val Met His Arg Val Ala Arg His Ala Ala Pro
260              265              270
Arg Val His Ile Leu Leu Ala Ile Phe Tyr Leu Leu Phe Pro Pro Met
275              280              285
Val Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Tyr
290              295              300
Val Leu Ser Leu Phe Gln Arg Lys Asn Met
305              310
<210> 381
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<212> DNA
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WO 02/24726

PCT/BE01/00162

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 <222> (1)..(954)
 <223>

<400> 381
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 1 5 10 15
 ctg ggc atc cct ggc cta cag gac cag cac atg tgg att tct atc cca 96
 Leu Gly Ile Pro Gly Leu Gln Asp Gln His Met Trp Ile Ser Ile Pro
 20 25 30
 ttc ttc att tcc tat gtr acc gcc ctt ctt ggg aac agc ctg ctc atc 144
 Phe Phe Ile Ser Tyr Val Thr Ala Leu Leu Gly Asn Ser Leu Leu Ile
 35 40 45
 ttc att atc ctc aca aag cgc agc ctc cat gaa ccc atg tac ctc ttc 192
 Phe Ile Ile Leu Thr Lys Arg Ser Leu His Glu Pro Met Tyr Leu Phe
 50 55 60
 ctc tgc atg ctg gct gga gca gac att gtc ctc tcc acg tgc acc att 240
 Leu Cys Met Leu Ala Gly Ala Asp Ile Val Leu Ser Thr Cys Thr Ile
 65 70 75
 cct cag gcc tta gct atc ttc tgg ttc cgt gct ggg gac atc tcc ctg 288
 Pro Gln Ala Leu Ala Ile Phe Trp Phe Arg Ala Gly Asp Ile Ser Leu
 85 90 95
 gat cgt tgc atc act cag ctc ttc ttc atc cat tcc acc ttc atc tct 336
 Asp Arg Cys Ile Thr Gln Leu Phe Phe Ile His Ser Thr Phe Ile Ser
 100 105 110
 gag tca ggg atc ttg ctg gtg atg gcc ttt gac cac tat att gcc ata 384
 Glu Ser Gly Ile Leu Leu Val Met Ala Phe Asp His Tyr Ile Ala Ile
 115 120 125
 tgc tac cca ctg agg tac acc acc att ctt aca aat gct ctg atc aag 432
 Cys Tyr Pro Leu Arg Tyr Thr Thr Ile Leu Thr Asn Ala Leu Ile Lys
 130 135 140
 aaa att tgt gtg act gtc tct ctg aga agt tat ggt aca att ttc cct 480
 Lys Ile Cys Val Thr Val Ser Leu Arg Ser Tyr Gly Thr Ile Phe Pro
 145 150 155 160
 atc ata ttt ctt tta aaa aga ttg act ttc tgc cag aat aat att att 528
 Ile Ile Phe Leu Leu Lys Arg Leu Thr Phe Cys Gln Asn Asn Ile Ile
 165 170 175
 coa cac acc ttt tgt gaa cac att ggc cta gcc aaa tat gca tgt aat 576
 Pro His Thr Phe Cys Glu His Ile Gly Leu Ala Lys Tyr Ala Cys Asn
 180 185 190
 gac att cga ata aac att tgg tat ggg ttt tcc att cta atg tgg acg 624
 Asp Ile Arg Ile Asn Ile Trp Tyr Gly Phe Ser Ile Leu Met Ser Thr
 195 200 205
 gtg gtc tta gat gtt gta cta att ttt att tcc tat atg ctg att ctc 672
 Val Val Leu Asp Val Val Leu Ile Phe Ile Ser Tyr Met Leu Ile Leu
 210 215 220

WO 02/24726

PCT/BE01/00162

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cat gct gtc ttc cac atg cct tct cca gat gct tgc cac aaa gct ctc      720
His Ala Val Phe His Met Pro Ser Pro Asp Ala Cys His Lys Ala Leu
225                230                235                240

aac aca ttt ggc tcc cat gtc tgc atc atc atc ctc ttt tat ggg tct      768
Asn Thr Phe Gly Ser His Val Cys Ile Ile Ile Leu Phe Tyr Gly Ser
245                250                255                260

ggc atc ttc aca atc ctt acc cag agg ttt gga cgc cac att cca cct      816
Gly Ile Phe Thr Ile Leu Thr Gln Arg Phe Gly Arg His Ile Pro Pro
260                265                270                275

tgt atc cac atc ccc ttg gct aat gtc tgc att ctg gct cca cct atg      864
Cys Ile His Ile Pro Leu Ala Asn Val Cys Ile Leu Ala Pro Pro Met
275                280                285                290

ctg aat ccc att att tat ggg atc aaa acc aag caa atc cag gaa cag      912
Leu Asn Pro Ile Ile Tyr Gly Ile Lys Thr Lys Gln Ile Gln Gln Gln
290                295                300                305

gtg gtt cag ttt ttg ttt ata aaa cag aaa ata act ttg gtt taa      957
Val Val Gln Phe Leu Phe Ile Lys Gln Lys Ile Thr Leu Val
305                310                315

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<210> 382
 <211> 318
 <212> PRT
 <213> Homo Sapiens

<400> 382

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Met Pro Thr Val Asn His Ser Gly Thr Ser His Thr Val Phe His Leu
1          5          10          15

Leu Gly Ile Pro Gly Leu Gln Asp Gln His Met Trp Ile Ser Ile Pro
20         25         30

Phe Phe Ile Ser Tyr Val Thr Ala Leu Leu Gly Asn Ser Leu Leu Ile
35         40         45

Phe Ile Ile Leu Thr Lys Arg Ser Leu His Glu Pro Met Tyr Leu Phe
50         55         60

Leu Cys Met Leu Ala Gly Ala Asp Ile Val Leu Ser Thr Cys Thr Ile
65         70         75         80

Pro Gln Ala Leu Ala Ile Phe Trp Phe Arg Ala Gly Asp Ile Ser Leu
85         90         95

Asp Arg Cys Ile Thr Gln Leu Phe Phe Ile His Ser Thr Phe Ile Ser
100        105        110

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PCT/BE01/00162

Glu Ser Gly Ile Leu Leu Val Met Ala Phe Asp His Tyr Ile Ala Ile
115 120 125

Cys Tyr Pro Leu Arg Tyr Thr Thr Ile Leu Thr Asn Ala Leu Ile Lys
130 135 140

Lys Ile Cys Val Thr Val Ser Leu Arg Ser Tyr Gly Thr Ile Phe Pro
145 150 155 160

Ile Ile Phe Leu Leu Lys Arg Leu Thr Phe Cys Gln Asn Asn Ile Ile
165 170 175

Pro His Thr Phe Cys Glu His Ile Gly Leu Ala Lys Tyr Ala Cys Asn
180 185 190

Asp Ile Arg Ile Asn Ile Trp Tyr Gly Phe Ser Ile Leu Met Ser Thr
195 200 205

Val Val Leu Asp Val Val Leu Ile Phe Ile Ser Tyr Met Leu Ile Leu
210 215 220

His Ala Val Phe His Met Pro Ser Pro Asp Ala Cys His Lys Ala Leu
225 230 235 240

Asn Thr Phe Gly Ser His Val Cys Ile Ile Ile Leu Phe Tyr Gly Ser
245 250 255

Gly Ile Phe Thr Ile Leu Thr Gln Arg Phe Gly Arg His Ile Pro Pro
260 265 270

Cys Ile His Ile Pro Leu Ala Asn Val Cys Ile Leu Ala Pro Pro Met
275 280 285

Leu Asn Pro Ile Ile Tyr Gly Ile Lys Thr Lys Gln Ile Gln Glu Gln
290 295 300

Val Val Gln Phe Leu Phe Ile Lys Gln Lys Ile Thr Leu Val
305 310 315

<210> 383
<211> 966
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> [1]..(963)
<223>

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<400> 383
atg tat ggg gac aac agc tcc agc ctg acc coa gga ttc ttt atc ttg      48
Met Ser Gly Asp Asn Ser Ser Ser Leu Thr Pro Gly Phe Phe Ile Leu
1      5      10      15

aat ggc gtt cct ggg ctg gaa gcc aca cac atc tgg atc tcc ctg coa      96
Asn Gly Val Pro Gly Leu Glu Ala Thr His Ile Trp Ile Ser Leu Pro
20      25      30

ttc tgc ttt atg tac atc att got gtc gtg ggg aac tgt ggg ctc atc      144
Phe Cys Phe Met Tyr Ile Ile Ala Val Val Gly Asn Cys Gly Leu Ile
35      40      45

tgc ctc atc agc cat gag gag gcc ctg cac cgg ccc atg tac tac ttc      192
Cys Leu Ile Ser His Glu Glu Ala Leu His Arg Pro Met Tyr Tyr Phe
50      55      60

ctg gcc ctg ctc tcc ttc act gat gtc acc ttg tgc acc acc atg gta      240
Leu Ala Leu Leu Ser Phe Thr Asp Val Thr Cys Thr Thr Met Val
65      70      75      80

cct aat atg ctg tgc ata ttc tgg ttc aac ctc aag gag att gac ttt      288
Pro Asn Met Leu Cys Ile Phe Trp Phe Asn Leu Lys Glu Ile Asp Phe
85      90      95

aac gcc tgc ctg gcc cag atg ttt ttt gtc cat atg ctg aca ggg atg      336
Asn Ala Cys Leu Ala Gln Met Phe Phe Val His Met Leu Thr Gly Met
100      105      110

gag tat ggg gtg ctc atg ctc atg gcc ctg gac cgc tat gtg gcc atc      384
Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
115      120      125

tgc tac ccc tta cgc tat gcc acc atc ctt acc aac cot gtc atc gcc      432
Cys Tyr Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asn Pro Val Ile Ala
130      135      140

aag gct ggt ctt gcc acc ttc ttg agg aat gtg atg ctc atc atc coa      480
Lys Ala Gly Leu Ala Thr Phe Leu Arg Asn Val Met Leu Ile Ile Pro
145      150      155      160

ttc act ctc ctc acc aag cgc ctg ccc tat tgc cgg ggg aac ttc atc      528
Phe Thr Leu Leu Thr Lys Arg Leu Pro Tyr Cys Arg Gly Asn Phe Ile
165      170      175

ccc cac acc tac tgt gac cat atg tct gtg gcc aag gta tcc tgt ggc      576
Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Val Ser Cys Gly
180      185      190

aat ttc aag gtc aat got att tat ggt ctg atg gtt gct ctc ctg att      624
Asn Phe Lys Val Asn Ala Ile Tyr Gly Leu Met Val Ala Leu Leu Ile
195      200      205

ggt gtg ttt gat atc tgc tgt atc tct gta tct tac act atg att ttg      672
Gly Val Phe Asp Ile Cys Cys Ile Ser Val Ser Tyr Thr Met Ile Leu
210      215      220

cag gct gtt atg agc ctg tca tca gca gat got cgt cac aaa gcc ttc      720
Gln Ala Val Met Ser Leu Ser Ser Ala Asp Ala Arg His Lys Ala Phe

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225          230          235          240
agc acc tgc aca tct cac atg tgt tcc att gtg atc acc tat gtt gct      768
Ser Thr Cys Thr Ser His Met Cys Ser Ile Val Ile Thr Tyr Val Ala
          245          250          255

gct ttt ttc act ttt ttc act cat cgt ttt gta gga cac aat atc cca      816
Ala Phe Phe Thr Phe Phe Thr His Arg Phe Val Gly His Asn Ile Pro
          260          265          270

aac cac ata cac atc atc gbg gcc aac ctt tat ctg cta ctg cct cct      864
Asn His Ile His Ile Ile Val Ala Asn Leu Tyr Leu Leu Leu Pro Pro
          275          280          285

acc atg aac cca att gtt tat gga gtc aag acc aag cag att cag gaa      912
Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Gln Glu
          290          295          300

ggc gta att aca ttt tta ctt gga gac aag gtt agt ttt acc tat gac      960
Gly Val Ile Lys Phe Leu Leu Gly Asp Lys Val Ser Phe Thr Tyr Asp
          305          310          315          320

aaa tga
Lys
          966

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<210> 384
<211> 321
<212> FRT
<213> Homo Sapiens
<400> 384

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Met Ser Gly Asp Asn Ser Ser Ser Leu Thr Pro Gly Phe Phe Ile Leu
1          5          10          15

Asn Gly Val Pro Gly Leu Glu Ala Thr His Ile Trp Ile Ser Leu Pro
          20          25          30

Phe Cys Phe Met Tyr Ile Ile Ala Val Val Gly Asn Cys Gly Leu Ile
          35          40          45

Cys Leu Ile Ser His Glu Glu Ala Leu His Arg Pro Met Tyr Tyr Phe
          50          55          60

Leu Ala Leu Leu Ser Phe Thr Asp Val Thr Leu Cys Thr Thr Met Val
          65          70          75          80

Pro Asn Met Leu Cys Ile Phe Trp Phe Asn Leu Lys Glu Ile Asp Phe
          85          90          95

Asn Ala Cys Leu Ala Gln Met Phe Phe Val His Met Leu Thr Gly Met
          100          105          110

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Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
 115 120 125

Cys Tyr Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asn Pro Val Ile Ala
 130 135 140

Lys Ala Gly Leu Ala Thr Phe Leu Arg Asn Val Met Leu Ile Ile Pro
 145 150 155 160

Phe Thr Leu Leu Thr Lys Arg Leu Pro Tyr Cys Arg Gly Asn Phe Ile
 165 170 175

Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Val Ser Cys Gly
 180 185 190

Asn Phe Lys Val Asn Ala Ile Tyr Gly Leu Met Val Ala Leu Leu Ile
 195 200 205

Gly Val Phe Asp Ile Cys Cys Ile Ser Val Ser Tyr Thr Met Ile Leu
 210 215 220

Gln Ala Val Met Ser Leu Ser Ser Ala Asp Ala Arg His Lys Ala Phe
 225 230 235 240

Ser Thr Cys Thr Ser His Met Cys Ser Ile Val Ile Thr Tyr Val Ala
 245 250 255

Ala Phe Phe Thr Phe Phe Thr His Arg Phe Val Gly His Asn Ile Pro
 260 265 270

Asn His Ile His Ile Ile Val Ala Asn Leu Tyr Leu Leu Leu Pro Pro
 275 280 285

Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Gln Glu
 290 295 300

Gly Val Ile Lys Phe Leu Leu Gly Asp Lys Val Ser Phe Thr Tyr Asp
 305 310 315 320

Lys

<210> 385
 <211> 984
 <212> DNA
 <213> Homo Sapiens

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PCT/BE01/00162

<220>
 <221> CDS
 <222> (1) .. (981)
 <223>

<400> 385
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 Met Leu His Thr Asn Asn Thr Gln Phe His Pro Ser Thr Phe Leu Val
 1 5 10 15
 gtg ggg gtc cca ggg ctg gaa gat gtg cat gta tgg att ggc ttc ccc 96
 Val Gly Val Pro Gly Leu Glu Asp Val His Val Trp Ile Gly Phe Pro
 20 25 30
 ttc ttt ggg gtg tat cta aca gcc ctt cta ggg aac atc att atc ctg 144
 Phe Phe Ala Val Tyr Leu Thr Ala Leu Leu Gly Asn Ile Ile Ile Leu
 35 40 45
 ttt gtg ata cag act gaa cag agc ctc cac caa ccc atg ttt tac ttc 192
 Phe Val Ile Gln Thr Glu Gln Ser Leu His Gln Pro Met Phe Tyr Phe
 50 55 60
 cta gcc atg tgg gcc gcc act gat ctg gcc ttg tct aca gca acc atc 240
 Leu Ala Met Leu Ala Gly Thr Asp Leu Gly Leu Ser Thr Ala Thr Ile
 65 70 75 80
 ccc aag atg ctg gga att ttc tgg ttt aat ctt gga gag att gca ttt 298
 Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Leu Gly Glu Ile Ala Phe
 85 90 95
 ggt gcc tgc atc aca cag atg tat acc att cat ata tgc act gcc ctg 336
 Gly Ala Cys Ile Thr Gln Met Tyr Thr Ile His Ile Cys Thr Gly Leu
 100 105 110
 gag tct gtg gta ctg aca gtc acg gcc ata gat cgc tat att gcc atc 384
 Glu Ser Val Val Leu Thr Val Thr Gly Ile Asp Arg Tyr Ile Ala Ile
 115 120 125
 tgc aac gcc ctg aga tat agc atg atc ctt acc aac aag gta ata gcc 432
 Cys Asn Pro Leu Arg Tyr Ser Met Ile Leu Thr Asn Lys Val Ile Ala
 130 135 140
 att ctg gcc ata gtc atc att gtc agg act ttg gta ttt gtg act cca 480
 Ile Leu Gly Ile Val Ile Ile Val Arg Thr Leu Val Phe Val Thr Pro
 145 150 155 160
 ttc aca ttt ctc acc ctg aga ttg cct ttc tgt ggt gtc cgg att atc 528
 Phe Thr Phe Leu Thr Leu Arg Leu Pro Phe Cys Gly Val Arg Ile Ile
 165 170 175
 cct cat acc tat tgt gaa cac atg gcc ttg gca aag tta gct tgt gcc 576
 Pro His Thr Tyr Cys Glu His Met Gly Leu Ala Lys Leu Ala Cys Ala
 180 185 190
 agt att aat gtt ata tat gga ttg att gcc ttc tca gtg gga tac att 624
 Ser Ile Asn Val Ile Tyr Gly Leu Ile Ala Phe Ser Val Gly Tyr Ile
 195 200 205
 gac att tct gtg att gga ttt tcc tat gtc cag atc ctc cga gct gtc 672

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Asp Ile Ser Val Ile Gly Phe Ser Tyr Val Gln Ile Leu Arg Ala Val
 210 315 320
 ttc cat ctc cca gcc tgg gat gcc cgg ctt aag gca ctc agc aca tgt 720
 Phe His Leu Pro Ala Trp Asp Ala Arg Leu Lys Ala Leu Ser Thr Cys
 225 230 235 240
 ggc tct cac gtc tgt gtt atg ttg gct ttc tac ctg cca gcc ctc ttt 768
 Gly Ser His Val Cys Val Met Leu Ala Phe Tyr Leu Pro Ala Leu Phe
 245 250 255
 tcc ttc atg aca cac cgc ttt ggc ccc aac atc cct cat tac atc cac 816
 Ser Phe Met Thr His Arg Phe Gly His Asn Ile Pro His Tyr Ile His
 260 265 270
 att ctt ctg gcc aat ctg tat gtg gtt ttt ccc cct gct ctt aac tct 864
 Ile Leu Leu Ala Asn Leu Tyr Val Val Phe Pro Pro Ala Leu Asn Ser
 275 280 285
 gtt atc tat ggg gtc aaa aca aaa cag ata cga gag cag gta ctt agg 912
 Val Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Gln Gln Val Leu Arg
 290 295 300
 ata ctc aac cct aza agc ttt tgg cat ttt gac ccc aag agg atc ttc 960
 Ile Leu Asn Pro Lys Ser Phe Trp His Phe Asp Pro Lys Arg Ile Phe
 305 310 315 320
 cac aac aat tca gtt aga caa taa 984
 His Asn Asn Ser Val Arg Gln
 325
 <210> 386
 <211> 327
 <212> PRT
 <213> Homo Sapiens
 <400> 386
 Met Leu His Thr Asn Asn Thr Gln Phe His Pro Ser Thr Phe Leu Val
 1 5 10 15
 Val Gly Val Pro Gly Leu Glu Asp Val His Val Trp Ile Gly Phe Pro
 20 25 30
 Phe Phe Ala Val Tyr Leu Thr Ala Leu Leu Gly Asn Ile Ile Ile Leu
 35 40 45
 Phe Val Ile Gln Thr Glu Gln Ser Leu His Gln Pro Met Phe Tyr Phe
 50 55 60
 Leu Ala Met Leu Ala Gly Thr Asp Leu Gly Leu Ser Thr Ala Thr Ile
 65 70 75 80
 Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Leu Gly Glu Ile Ala Phe
 85 90 95

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Gly Ala Cys Ile Thr Gln Met Tyr Thr Ile His Ile Cys Thr Gly Leu
 100 105 110
 Glu Ser Val Val Leu Thr Val Thr Gly Ile Asp Arg Tyr Ile Ala Ile
 115 120 125
 Cys Asn Pro Leu Arg Tyr Ser Met Ile Leu Thr Asn Lys Val Ile Ala
 130 135 140
 Ile Leu Gly Ile Val Ile Ile Val Arg Thr Leu Val Phe Val Thr Pro
 145 150 155 160
 Phe Thr Phe Leu Thr Leu Arg Leu Pro Phe Cys Gly Val Arg Ile Ile
 165 170 175
 Pro His Thr Tyr Cys Glu His Met Gly Leu Ala Lys Leu Ala Cys Ala
 180 185 190
 Ser Ile Asn Val Ile Tyr Gly Leu Ile Ala Phe Ser Val Gly Tyr Ile
 195 200 205
 Asp Ile Ser Val Ile Gly Phe Ser Tyr Val Gln Ile Leu Arg Ala Val
 210 215 220
 Phe His Leu Pro Ala Trp Asp Ala Arg Leu Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Gly Ser His Val Cys Val Met Leu Ala Phe Tyr Leu Pro Ala Leu Phe
 245 250 255
 Ser Phe Met Thr His Arg Phe Gly His Asn Ile Pro His Tyr Ile His
 260 265 270
 Ile Leu Leu Ala Asn Leu Tyr Val Val Phe Pro Pro Ala Leu Asn Ser
 275 280 285
 Val Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Gln Val Leu Arg
 290 295 300
 Ile Leu Asn Pro Lys Ser Phe Trp His Phe Asp Pro Lys Arg Ile Phe
 305 310 315 320
 His Asn Asn Ser Val Arg Gln
 325

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PCT/BE01/00162

<210> 387
 <211> 963
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(960)
 <223>

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Met Ser Phe Leu Asn Gly Thr Ser Leu Thr Pro Ala Ser Phe Ile Leu
1          5          10          15

aat ggc atc cct ggt ttg gaa gat gtg cat ttg tgg atc tcc ttc cca      96
Asn Gly Ile Pro Gly Leu Glu Asp Val His Leu Trp Ile Ser Phe Pro
20          25          30

ctg tgt acc atg tac agc att gct att ada ggg aac ttc ggc ctt atg      144
Leu Cys Thr Met Tyr Ser Ile Ala Ile Thr Gly Asn Phe Gly Leu Met
35          40          45

tac ctc atc tac tgt gat gag gcc tta cac aga cct atg tat gtc ttc      192
Tyr Leu Ile Tyr Cys Asp Glu Ala Leu His Arg Pro Met Tyr Val Phe
50          55          60

ctt gcc ctt ctt tcc ttc ada gat gtg ctc atg tgc acc agc acc ctt      240
Leu Ala Leu Leu Ser Phe Thr Asp Val Leu Met Cys Thr Ser Thr Leu
65          70          75          80

ccc aac act ctc ttc ata ttg tgg ttt aat ctc aag gag att gat ttt      288
Pro Asn Thr Leu Phe Ile Leu Trp Phe Asn Leu Lys Glu Ile Asp Phe
85          90          95

aaa gcc tgc ctc gcc cag atg ttc ttt gtg cac acc ttc aca ggg atg      336
Lys Ala Cys Leu Ala Gln Met Phe Phe Val His Thr Phe Thr Gly Met
100         105         110

gag tct ggg gtg ctc atg ctc atg gcc ctg gac cac tgt gtg gcc atc      384
Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp His Cys Val Ala Ile
115         120         125

tgc ttc cct ctg ogt tat gcc acc atc ctc act aat tca gtc att got      432
Cys Phe Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asn Ser Val Ile Ala
130         135         140

aaa gct ggg ttc ctc act ctt ctt agg ggt gtg atg ctt gtt atc cct      480
Lys Ala Gly Phe Leu Thr Phe Leu Arg Gly Val Met Leu Val Ile Pro
145         150         155         160

tcc act ttc ctc acc aag cgc ctt cca tac tgc aag ggc aac gtc ata      528
Ser Thr Phe Leu Thr Lys Arg Leu Pro Tyr Cys Lys Gly Asn Val Ile
165         170         175

ccc cac acc tac tgt gac cac atg tct gtg gcc aag ata tct tgt ggt      576
Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Ile Ser Cys Gly
180         185         190

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aat gtc agg gtt aac gcc atc tat ggt ttg ata gtt gcc ctg ctg att      624
Asn Val Arg Val Asn Ala Ile Tyr Gly Leu Ile Val Ala Leu Leu Ile
      195              200              205

ggg ggc ttt gat atc ctg tgc att aca atc tcc tac act atg att ctt      672
Gly Gly Phe Asp Ile Leu Cys Ile Thr Ile Ser Tyr Thr Met Ile Leu
      210              215              220

caa gca gtt gtg agt cta tca tca gca gat gct cga cag aag gcc ttc      720
Gln Ala Val Val Ser Leu Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe
      225              230              235              240

agc acc tgc act gcc cac ttc tgt gcc ata gtc ctc acc tat gtt cca      768
Ser Thr Cys Thr Ala His Phe Cys Ala Ile Val Leu Thr Tyr Val Pro
      245              250              255

gcc ttc ttt acc ttc ttt aca cac cat ttt ggg gga cac acc att cct      816
Ala Phe Phe Thr Phe Phe Thr His His Phe Gly Gly His Thr Ile Pro
      260              265              270

cta cac ata cat att att atg gct aat ctc tac cta cta atg cct ccc      864
Leu His Ile His Ile Ile Met Ala Asn Leu Tyr Leu Leu Met Pro Pro
      275              280              285

aca atg aac cct att gtg tat ggg gtg aaa acc agg cag gta cga gaa      912
Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Arg Gln Val Arg Glu
      290              295              300

agt gtc att agg ttc ttc ctt aag gga aag gac aat tct cat aac ttt      960
Ser Val Ile Arg Phe Phe Leu Lys Gly Tyr Asp Asn Ser His Asn Phe
      305              310              315              320

taa                                                                    963

<210> 388
<211> 320
<212> PRT
<213> Homo Sapiens

<400> 388
Met Ser Phe Leu Asn Gly Thr Ser Leu Thr Pro Ala Ser Phe Ile Leu
1          5          10          15

Asn Gly Ile Pro Gly Leu Glu Asp Val His Leu Trp Ile Ser Phe Pro
20          25          30

Leu Cys Thr Met Tyr Ser Ile Ala Ile Thr Gly Asn Phe Gly Leu Met
35          40          45

Tyr Leu Ile Tyr Cys Asp Glu Ala Leu His Arg Pro Met Tyr Val Phe
50          55          60

Leu Ala Leu Leu Ser Phe Thr Asp Val Leu Met Cys Thr Ser Thr Leu
65          70          75          80

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PCT/BE01/00162

Pro Asn Thr Leu Phe Ile Leu Trp Phe Asn Leu Lys Glu Ile Asp Phe
 85 90 95
 Lys Ala Cys Leu Ala Glu Met Phe Phe Val His Thr Phe Thr Gly Met
 100 105 110
 Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp His Cys Val Ala Ile
 115 120 125
 Cys Phe Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asn Ser Val Ile Ala
 130 135 140
 Lys Ala Gly Phe Leu Thr Phe Leu Arg Gly Val Met Leu Val Ile Pro
 145 150 155 160
 Ser Thr Phe Leu Thr Lys Arg Leu Pro Tyr Cys Lys Gly Asn Val Ile
 165 170 175
 Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Ile Ser Cys Gly
 180 185 190
 Asn Val Arg Val Asn Ala Ile Tyr Gly Leu Ile Val Ala Leu Leu Ile
 195 200 205
 Gly Gly Phe Asp Ile Leu Cys Ile Thr Ile Ser Tyr Thr Met Ile Leu
 210 215 220
 Gln Ala Val Val Ser Leu Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe
 225 230 235 240
 Ser Thr Cys Thr Ala His Phe Cys Ala Ile Val Leu Thr Tyr Val Pro
 245 250 255
 Ala Phe Phe Thr Phe Phe Thr His His Phe Gly Gly His Thr Ile Pro
 260 265 270
 Leu His Ile His Ile Ile Met Ala Asn Leu Tyr Leu Leu Met Pro Pro
 275 280 285
 Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Arg Gln Val Arg Glu
 290 295 300
 Ser Val Ile Arg Phe Phe Leu Lys Gly Lys Asp Asn Ser His Asn Phe
 305 310 315 320

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PCT/BE01/00162

<210> 389
 <211> 948
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1) .. (945)
 <223>

<400> 389
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 1 5 10 15
 ctc ttg aat tgt ttt gtc aga tcc ccc agc tgg cag cac tgg ctg tcc 96
 Leu Leu Asn Cys Phe Val Arg Ser Pro Ser Trp Gln His Trp Leu Ser
 20 25 30
 ctg ccc ctc agc ctc ctt ttc ctc ttg gcc gta ggg gcc aac acc acc 144
 Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Val Gly Ala Asn Thr Thr
 35 40 45
 ctc ctg atg acc atc tgg ctg gag gcc tct ctg cac cag ccc ctg tac 192
 Leu Leu Met Thr Ile Trp Leu Glu Ala Ser Leu His Gln Pro Leu Tyr
 50 55 60
 tac ctg ctc agc ctc ctc tcc ctg ctg gac atc gtg ctc tgc ctc act 240
 Tyr Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu Cys Leu Thr
 65 70 75 80
 gtc atc ccc aag gtc ctg acc atc ttc tgg ttt gac ctc agg ccc atc 288
 Val Ile Pro Lys Val Leu Thr Ile Phe Trp Phe Asp Leu Arg Pro Ile
 85 90 95
 agc ttc cct gcc tgc ttc ctc cag atg tac atc atg aat tgt ttc cta 336
 Ser Phe Pro Ala Cys Phe Leu Gln Met Tyr Ile Met Asn Cys Phe Leu
 100 105 110
 gcc atg gag tct tgc aca ttc atg gtc atg gcc tat gat cgt tat gta 384
 Ala Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp Arg Tyr Val
 115 120 125
 gcc atc tgc cac cca ctg aga tat cca tca atc atc act gat cac ttt 432
 Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr Asp His Phe
 130 135 140
 gta gtc aag gct gcc atg ttt att ttg acc aga aat gtg ctt atg act 480
 Val Val Lys Ala Ala Met Phe Ile Leu Thr Arg Asn Val Leu Met Thr
 145 150 155 160
 ctg ccc atc ccc atc ctt tca gca caa ctc cgt tat tgt gga aga aat 528
 Leu Pro Ile Pro Ile Leu Ser Ala Gln Leu Arg Tyr Cys Gly Arg Asn
 165 170 175
 gtc att gag aac tgc atc tgt gcc aat atg tct gtt tcc aga ctc tcc 576
 Val Ile Glu Asn Cys Ile Cys Ala Asn Met Ser Val Ser Arg Leu Ser
 180 185 190
 tgc gat gat gtc acc atc aat cac ctt tac caa ttt gct gga ggc tgg 624

WO 02/24726

PCT/BE01/00162

Cys Asp Asp Val Thr Ile Asn His Leu Tyr Gln Phe Ala Gly Gly Trp
 195 200 205
 act ctg cta gga tct gac ctc atc ctt atc ttc ctc tcc tac acc ttc 672
 Thr Leu Leu Gly Ser Asp Leu Ile Leu Ile Phe Leu Ser Tyr Thr Phe
 210 215 220
 att ctg cga gct gtg ctg aga ctc aag gca gag ggt gcc gtg gca aag 720
 Ile Leu Arg Ala Val Leu Arg Leu Lys Ala Glu Gly Ala Val Ala Lys
 225 230 235 240
 gcc cta agc aca tgt ggc tcc cac ttc atg ctc atc ctc ttc ttc agc 768
 Ala Leu Ser Thr Cys Gly Ser His Phe Met Leu Ile Leu Phe Phe Ser
 245 250 255
 acc atc ctt ctg gtt ttt gtc ctc aca cat gtg gct aag aag aaa gtc 816
 Thr Ile Leu Leu Val Phe Val Leu Thr His Val Ala Lys Lys Lys Val
 260 265 270
 tcc cct gat gtg cca gtc ttg ctc aat gtt ctc cac cat gtc att cct 864
 Ser Pro Asp Val Pro Val Leu Leu Asn Val Leu His His Val Ile Pro
 275 280 285
 gca gcc ctt aac ccc atc att tac ggg gtg aga acc caa gaa att aag 912
 Ala Ala Leu Asn Pro Ile Ile Tyr Gly Val Arg Thr Gln Glu Ile Lys
 290 295 300
 cag gga atg cag agg ttg ttg aag aaa ggg tgc taa 948
 Gln Gly Met Gln Arg Leu Leu Lys Lys Gly Cys
 305 310 315

 <210> 390
 <211> 315
 <212> PRT
 <213> Homo Sapiens

 <400> 390
 Met Thr Thr His Arg Asn Asp Thr Leu Ser Thr Glu Ala Ser Asp Phe
 1 5 10 15
 Leu Leu Asn Cys Phe Val Arg Ser Pro Ser Trp Gln His Trp Leu Ser
 20 25 30
 Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Val Gly Ala Asn Thr Thr
 35 40 45
 Leu Leu Met Thr Ile Trp Leu Glu Ala Ser Leu His Gln Pro Leu Tyr
 50 55 60
 Tyr Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu Cys Leu Thr
 65 70 75 80
 Val Ile Pro Lys Val Leu Thr Ile Phe Trp Phe Asp Leu Arg Pro Ile
 85 90 95

WO 02/24726

PCT/BE01/00162

Ser Phe Pro Ala Cys Phe Leu Gln Met Tyr Ile Met Asn Cys Phe Leu
 100 105 110
 Ala Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp Arg Tyr Val
 115 120 125
 Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr Asp His Phe
 130 135 140
 Val Val Lys Ala Ala Met Phe Ile Leu Thr Arg Asn Val Leu Met Thr
 145 150 155 160
 Leu Pro Ile Pro Ile Leu Ser Ala Gln Leu Arg Tyr Cys Gly Arg Asn
 165 170 175
 Val Ile Glu Asn Cys Ile Cys Ala Asn Met Ser Val Ser Arg Leu Ser
 180 185 190
 Cys Asp Asp Val Thr Ile Asn His Leu Tyr Gln Phe Ala Gly Gly Trp
 195 200 205
 Thr Leu Leu Gly Ser Asp Leu Ile Leu Ile Phe Leu Ser Tyr Thr Phe
 210 215 220
 Ile Leu Arg Ala Val Leu Arg Leu Lys Ala Glu Gly Ala Val Ala Lys
 225 230 235 240
 Ala Leu Ser Thr Cys Gly Ser His Phe Met Leu Ile Leu Phe Phe Ser
 245 250 255
 Thr Ile Leu Leu Val Phe Val Leu Thr His Val Ala Lys Lys Lys Val
 260 265 270
 Ser Pro Asp Val Pro Val Leu Leu Asn Val Leu His His Val Ile Pro
 275 280 285
 Ala Ala Leu Asn Pro Ile Ile Tyr Gly Val Arg Thr Gln Glu Ile Lys
 290 295 300
 Gln Gly Met Gln Arg Leu Leu Lys Lys Gly Cys
 305 310 315
 <210> 391
 <211> 942
 <212> DNA

WO 02/24726

PCT/BE01/00162

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)...(959)

<223>

<400> 391

atg cct ata gct aac gac acc cag ttc cat act tct tca ttc cta ctg	48
Met Pro Ile Ala Asn Asp Thr Gln Phe His Thr Ser Ser Phe Leu Leu	
1 5 10 15	
ctg ggt atc cca gga cta gaa gat gtg cac atc tgg att gga ttc cct	96
Leu Gly Ile Pro Gly Leu Glu Asp Val His Ile Trp Ile Gly Phe Pro	
20 25 30	
ttt ttc tct gtg tat ctt att gca ctc ctg gga aat gct gct atc ttc	144
Phe Phe Ser Val Tyr Leu Ile Ala Leu Leu Gly Asn Ala Ala Ile Phe	
35 40 45	
ttt gtg atc caa act gag cag agt ctc cat gag ccc atg tac tac tgc	192
Phe Val Ile Gln Thr Glu Gln Ser Leu His Glu Pro Met Tyr Tyr Cys	
50 55 60	
ctg gcc atg ttg gat tcc att gac ctg agc ttg tct acg gcc acc att	240
Leu Ala Met Leu Asp Ser Ile Asp Leu Ser Leu Ser Thr Ala Thr Ile	
65 70 75 80	
ccc aaa atg ctg ggc atc ttc tgg ttc aat atc aag gaa ata tct ttt	288
Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Ile Lys Glu Ile Ser Phe	
85 90 95	
gga ggc tac ctt tct cag atg ttc ttc atc cat ttc ttc act gtc atg	336
Gly Gly Tyr Leu Ser Gln Met Phe Phe Ile His Phe Phe Thr Val Met	
100 105 110	
gag agc atc gta ttg gtg gcc atg gcc ttt gac cgc tac att gcc att	384
Glu Ser Ile Val Leu Val Ala Met Ala Phe Asp Arg Tyr Ile Ala Ile	
115 120 125	
tgc aaa cct ctt tgg tac acc atg atc ctc acc agc aaa atc atc agc	432
Cys Lys Pro Leu Trp Tyr Thr Met Ile Leu Thr Ser Lys Ile Ile Ser	
130 135 140	
ctc att gca ggc att gct gtc ctg agg agc ttg tac atg gtc att cca	480
Leu Ile Ala Gly Ile Ala Val Leu Arg Ser Leu Tyr Met Val Ile Pro	
145 150 155 160	
ctg gtg ttt ctc ctc tta agg ttg ccc ttc tgt gga cat cgt atc atc	528
Leu Val Phe Leu Leu Leu Arg Leu Pro Phe Cys Gly His Arg Ile Ile	
165 170 175	
cct cat act tac tgt gag cac atg ggc att gcc cgt ctg gcc tgt gcc	576
Pro His Thr Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys Ala	
180 185 190	
agc atc aaa gtc aac att atg ttt ggt ctt ggc agt att tct ctc ttg	624
Ser Ile Lys Val Asn Ile Met Phe Gly Leu Gly Ser Ile Ser Leu Leu	
195 200 205	

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tta ttg gat gtg ctg ctt att att ctc tcc cat atc agg atc ctc tat      672
Leu Leu Asp Val Leu Leu Ile Ile Leu Ser His Ile Arg Tle Leu Tyr
210                      215                      220

gct gtc ttc tgc ctg ccc tcc tgg gaa gct cga ctc aaa gct ctc aac      720
Ala Val Phe Cys Leu Pro Ser Trp Glu Ala Arg Leu Lys Ala Leu Asn
225                      230                      235                      240

acc tgt ggc tct cac att ggt gtt atc tta gcc ttt tct aca cca gca      768
Thr Cys Gly Ser His Ile Gly Val Ile Leu Ala Phe Ser Thr Pro Ala
245                      250                      255

ttt ttc tct ttc ttt aca cac tgc ttt ggc cat gat att ccc caa tat      816
Phe Phe Ser Phe Phe Thr His Cys Phe Gly His Asp Ile Pro Gln Tyr
260                      265                      270

atc cac att ttc ttg gct aat cta tat gtg gtt gtt cct ccc acc ctc      864
Ile His Ile Phe Leu Ala Asn Leu Tyr Val Val Val Pro Pro Thr Leu
275                      280                      285

aat cct gta atc tat ggg ctc aga acc aaa cat att agg gag aca gtg      912
Asn Pro Val Ile Tyr Gly Val Arg Thr Lys His Ile Arg Glu Thr Val
290                      295                      300

ctg agg att ttc ttc aag aca gat cac taa                                942
Leu Arg Ile Phe Phe Lys Thr Asp His
305                      310

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<210> 392
 <211> 313
 <212> PRT
 <213> Homo Sapiens

<400> 392

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Met Pro Ile Ala Asn Asp Thr Gln Phe His Thr Ser Ser Phe Leu Leu
1                      5                      10                      15

Leu Gly Ile Pro Gly Leu Glu Asp Val His Ile Trp Ile Gly Phe Pro
20                      25                      30

Phe Phe Ser Val Tyr Leu Ile Ala Leu Leu Gly Asn Ala Ala Ile Phe
35                      40                      45

Phe Val Ile Gln Thr Glu Gln Ser Leu His Glu Pro Met Tyr Tyr Cys
50                      55                      60

Leu Ala Met Leu Asp Ser Ile Asp Leu Ser Leu Ser Thr Ala Thr Ile
65                      70                      75                      80

Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Ile Lys Glu Ile Ser Phe
85                      90                      95

Gly Gly Tyr Leu Ser Gln Met Phe Phe Ile His Phe Phe Thr Val Met

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100 105 110
 Glu Ser Ile Val Leu Val Ala Met Ala Phe Asp Arg Tyr Ile Ala Ile
 115 120 125
 Cys Lys Pro Leu Trp Tyr Thr Met Ile Leu Thr Ser Lys Ile Ile Ser
 130 135 140
 Leu Ile Ala Gly Ile Ala Val Leu Arg Ser Leu Tyr Met Val Ile Pro
 145 150 155 160
 Leu Val Phe Leu Leu Leu Arg Leu Pro Phe Cys Gly His Arg Ile Ile
 165 170 175
 Pro His Thr Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys Ala
 180 185 190
 Ser Ile Lys Val Asn Ile Met Phe Gly Leu Gly Ser Ile Ser Leu Leu
 195 200 205
 Leu Leu Asp Val Leu Leu Ile Ile Leu Ser His Ile Arg Ile Leu Tyr
 210 215 220
 Ala Val Phe Cys Leu Pro Ser Trp Glu Ala Arg Leu Lys Ala Leu Asn
 225 230 235 240
 Thr Cys Gly Ser His Ile Gly Val Ile Leu Ala Phe Ser Thr Pro Ala
 245 250 255
 Phe Phe Ser Phe Phe Thr His Cys Phe Gly His Asp Ile Pro Gln Tyr
 260 265 270
 Ile His Ile Phe Leu Ala Asn Leu Tyr Val Val Val Pro Pro Thr Leu
 275 280 285
 Asn Pro Val Ile Tyr Gly Val Arg Thr Lys His Ile Arg Glu Thr Val
 290 295 300
 Leu Arg Ile Phe Phe Lys Thr Asp His
 305 310
 <210> 393
 <211> 939
 <212> DNA
 <213> Homo Sapiens
 <220>

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<221> CDS
 <222> {1}..(936)
 <223>

<400> 393
 atg cct tct atc aat gac acc cac ttc tat ccc ccc ttc ttc ctc ctg 48
 Met Pro Ser Ile Asn Asp Thr His Phe Tyr Pro Pro Phe Phe Leu Leu
 1 5 10 15
 cta gga ata cca gga ctg gac act tta cat atc tgg att tct ttc cca 96
 Leu Gly Ile Pro Gly Leu Asp Thr Leu His Ile Trp Ile Ser Phe Pro
 20 25 30
 ttc tgt att gtg tac ctg att gcc att gtg ggg aat atg acc att ctc 144
 Phe Cys Ile Val Tyr Leu Ile Ala Ile Val Gly Asn Met Thr Ile Leu
 35 40 45
 ttt gtg atc aaa act gaa cat agt cta cac cag ccc atg ttc tac ttc 192
 Phe Val Ile Lys Thr Glu His Ser Leu His Gln Pro Met Phe Tyr Phe
 50 55 60
 ctg gcc atg ttg tct atg att gat ctg ggt ctg tcc aca tcc act atc 240
 Leu Ala Met Leu Ser Met Ile Asp Leu Gly Leu Ser Thr Ser Thr Ile
 65 70 75 80
 ccc aaa atg cta gga atc ttc tgg ttc aac ctc caa gag atc agc ttt 288
 Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Leu Gln Glu Ile Ser Phe
 85 90 95
 ggg gga tgc ctt ctt cag atg ttc ttt att cac atg ttt aca ggc atg 336
 Gly Gly Cys Leu Leu Gln Met Phe Phe Ile His Met Phe Thr Gly Met
 100 105 110
 gag act gtt ctg ttg gtg gtc atg get tat gac cgc ttt gtt gcc atc 384
 Glu Thr Val Leu Leu Val Val Met Ala Tyr Asp Arg Phe Val Ala Ile
 115 120 125
 tgc aac cct ctc cag tac acc atg atc ctc acc aat aaa acc atc agt 432
 Cys Asn Pro Leu Gln Tyr Thr Met Ile Leu Thr Asn Lys Thr Ile Ser
 130 135 140
 atc cta get tct gtg gtt gtt gga aga aat tta gtt ctt gta acc cca 480
 Ile Leu Ala Ser Val Val Val Gly Arg Asn Leu Val Leu Val Thr Pro
 145 150 155 160
 ttt gtg ttt ctc att ctg cgt ctg cca ttc tgt ggg cat aac atc gta 528
 Phe Val Phe Leu Ile Leu Arg Leu Pro Phe Cys Gly His Asn Ile Val
 165 170 175
 cct cac aca tac tgt gag cac agg ggt ctg gcc ggg ttg gcc tgt gca 576
 Pro His Thr Tyr Cys Glu His Arg Gly Leu Ala Gly Leu Ala Cys Ala
 180 185 190
 ccc att aag atc aac ata atc tat ggg ctc atg gtg att tct tat att 624
 Pro Ile Lys Ile Asn Ile Ile Tyr Gly Leu Met Val Ile Ser Tyr Ile
 195 200 205
 att gtg gat gtg atc tta att gcc tct tcc tat gtg ctt atc ctt aga 672
 Ile Val Asp Val Ile Leu Ile Ala Ser Ser Tyr Val Leu Ile Leu Arg
 210 215 220

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PCT/BE01/00162

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gct gtt ttt cgc ctt ccc tct caa gat gtc cga cta aag gcc ttc aat      720
Ala Val Phe Arg Leu Pro Ser Gln Asp Val Arg Leu Lys Ala Phe Asn
225                230                235                240

acc tgt ggt tct cat gtc tgt gtt atg ctg tgc ttt tac aca oca gaa      768
Thr Cys Gly Ser His Val Cys Val Met Leu Cys Phe Tyr Thr Pro Ala
245                250                255

ttt ttt tct ttt atg aca cat cgt ttt ggc caa aac att ccc cac tat      816
Phe Phe Ser Phe Met Thr His Arg Phe Gly Gln Asn Ile Pro His Tyr
260                265                270

atc cat att ctt ttg gct aac ctg tat gtg gtt gtc oca cct gcc ctt      864
Ile His Ile Leu Leu Ala Asn Leu Tyr Val Val Val Pro Pro Ala Leu
275                280                285

aac cct gtc att tat gga gtc agg acc aag cag att cga gag caa att      912
Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Gln Gln Ile
290                295                300

gtg aaa ata ttt gta cag aaa gaa taa      939
Val Lys Ile Phe Val Gln Lys Glu
305                310

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<210> 394
 <211> 312
 <212> PRT
 <213> Homo Sapiens

<400> 394

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Met Pro Ser Ile Asn Asp Thr His Phe Tyr Pro Pro Phe Phe Leu Leu
1      5      10      15

Leu Gly Ile Pro Gly Leu Asp Thr Leu His Ile Trp Ile Ser Phe Pro
20     25     30

Phe Cys Ile Val Tyr Leu Ile Ala Ile Val Gly Asn Met Thr Ile Leu
35     40     45

Phe Val Ile Lys Thr Glu His Ser Leu His Gln Pro Met Phe Tyr Phe
50     55     60

Leu Ala Met Leu Ser Met Ile Asp Leu Gly Leu Ser Thr Ser Thr Ile
65     70     75     80

Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Leu Gln Glu Ile Ser Phe
85     90     95

Gly Gly Cys Leu Leu Gln Met Phe Phe Ile His Met Phe Thr Gly Met
100    105    110

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PCT/BE01/00162

Glu Thr Val Leu Leu Val Val Met Ala Tyr Asp Arg Phe Val Ala Ile
115 120 125

Cys Asn Pro Leu Gln Tyr Thr Met Ile Leu Thr Asn Lys Thr Ile Ser
130 135 140

Ile Leu Ala Ser Val Val Val Gly Arg Asn Leu Val Leu Val Thr Pro
145 150 155 160

Phe Val Phe Leu Ile Leu Arg Leu Pro Phe Cys Gly His Asn Ile Val
165 170 175

Pro His Thr Tyr Cys Glu His Arg Gly Leu Ala Gly Leu Ala Cys Ala
180 185 190

Pro Ile Lys Ile Asn Ile Ile Tyr Gly Leu Met Val Ile Ser Tyr Ile
195 200 205

Ile Val Asp Val Ile Leu Ile Ala Ser Ser Tyr Val Leu Ile Leu Arg
210 215 220

Ala Val Phe Arg Leu Leu Pro Ser Gln Asp Val Arg Leu Lys Ala Phe Asn
225 230 235 240

Thr Cys Gly Ser His Val Cys Val Met Leu Cys Phe Tyr Thr Pro Ala
245 250 255

Phe Phe Ser Phe Met Thr His Arg Phe Gly Gln Asn Ile Pro His Tyr
260 265 270

Ile His Ile Leu Leu Ala Asn Leu Tyr Val Val Val Pro Pro Ala Leu
275 280 285

Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Glu Gln Ile
290 295 300

Val Lys Ile Phe Val Gln Lys Glu
305 310

<210> 395
<211> 954
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(951)
<223>

WO 02/24726

PCT/BE01/00162

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<400> 395
atg gca gga aga atg tct acg tct aat cac acc cag ttc cat cct tct      48
Met Ala Gly Arg Met Ser Thr Ser Asn His Thr Gln Phe His Pro Ser
1      5      10      15

tca ttc cta ctg ctg ggt atc cca ggg cta gaa gat gtg cac att tgg      96
Ser Phe Leu Leu Leu Gly Ile Pro Gly Leu Glu Asp Val His Ile Trp
20      25      30

att gga gtc cct ttt ttc ttt gtg tat ctt gtt gca ctc ctg gga aac     144
Ile Gly Val Pro Phe Phe Phe Val Tyr Leu Val Ala Leu Leu Gly Asn
35      40      45

act gct ctc ttg ttt gtg atc cag act gag cag agt ctc cat gag cct     192
Thr Ala Leu Leu Phe Val Ile Gln Thr Glu Gln Ser Leu His Glu Pro
50      55      60

atg tac tac ttc ctg gcc atg ttg gat tcc att gac ctg gcc ttg tct     240
Met Tyr Tyr Phe Leu Ala Met Leu Asp Ser Ile Asp Leu Gly Leu Ser
65      70      75      80

aca gcc acc atc ccc aaa atg ttg ggc atc ttc tgg ttc aat acc aaa     288
Thr Ala Thr Ile Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Thr Lys
85      90      95

gaa ata tct ttt gga ggc tgc ctt tct cac atg ttc ttc atc cat ttc     336
Glu Ile Ser Phe Gly Gly Cys Leu Ser His Met Phe Phe Ile His Phe
100      105      110

ttc act gct atg gag agc att gtg ttg gtg gcc atg gcc ttt gac cgc     384
Phe Thr Ala Met Glu Ser Ile Val Leu Val Ala Met Ala Phe Asp Arg
115      120      125

tac att gcc att tgc aaa cct ctt cgg tac acc atg atc ctc acc agc     432
Tyr Ile Ala Ile Cys Lys Pro Leu Arg Tyr Thr Met Ile Leu Thr Ser
130      135      140

aaa atc atc agc ctc att gca ggc att gct gtc ctg agg agc ctg tac     480
Lys Ile Ile Ser Leu Ile Ala Gly Ile Ala Val Leu Arg Ser Leu Tyr
145      150      155      160

atg gtt gtt cca ctg gtg ttt ctc ctt ctg agg ctg ccc ttc tgt ggg     528
Met Val Val Pro Leu Val Phe Leu Leu Leu Arg Leu Pro Phe Cys Gly
165      170      175

cat cgt atc atc cct cat act tat tgt gag cac atg gcc att gcc cgt     576
His Arg Ile Ile Pro His Thr Tyr Cys Glu His Met Gly Ile Ala Arg
180      185      190

ctg gcc tgt gcc agc atc aaa gtc aac att agg ttt ggc ctt gcc aac     624
Leu Ala Cys Ala Ser Ile Lys Val Asn Ile Arg Phe Gly Leu Gly Asn
195      200      205

ata tct ctc ttg tta ctg gat gtt atc ctt att att ctc tcc tat gtc     672
Ile Ser Leu Leu Leu Leu Asp Val Ile Leu Ile Ile Leu Ser Tyr Val
210      215      220

agg atc ctg tat gct gtc ttc tgc ctg ccc tcc tgg gaa gct oga ctc     720
Arg Ile Leu Tyr Ala Val Phe Cys Leu Pro Ser Trp Glu Ala Arg Leu

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225          230          235          240
aaa gct ctc aac acc tgt ggt tct cat att ggt gtt atc tta gcc ttt      758
lys ala leu asn thr cys gly ser his ile gly val ile leu ala phe
          245          250          255

ttt aca coa goa ttt ttt tca ttc ttg aca cat cgt ttt gcc cat aat      816
phe thr pro ala phe phe ser phe leu thr his arg phe gly his asn
          260          265          270

atc cca cag tat ata cat att ata tta gcc aac ctg tat gtg gtt gtc      864
ile pro gln tyr ile his ile ile leu ala asn leu tyr val val val
          275          280          285

cca cca gcc ctc aat cct gta atc tat gga gtc agg aca aag cag att      912
pro pro ala leu asn pro val ile tyr gly val arg thr lys gln ile
          290          295          300

cga gag aga gtg ctg agg att ttt ctc aag acc aat cac taa      954
arg glu arg val leu arg ile phe leu lys thr asn his
305          310          315

<210> 396
<211> 317
<212> PRT
<213> Homo Sapiens

<400> 396
Met Ala Gly Arg Met Ser Thr Ser Asn His Thr Gln Phe His Pro Ser
1          5          10          15

Ser Phe Leu Leu Leu Gly ile Pro Gly Leu Glu Asp Val His ile Trp
20          25          30

Ile Gly Val Pro Phe Phe Phe Val Tyr Leu Val Ala Leu Leu Gly Asn
35          40          45

Thr Ala Leu Leu Phe Val ile Gln Thr Glu Gln Ser Leu His Glu Pro
50          55          60

Met Tyr Tyr Phe Leu Ala Met Leu Asp Ser ile Asp Leu Gly Leu Ser
65          70          75          80

Thr Ala Thr ile Pro Lys Met Leu Gly ile Phe Trp Phe Asn Thr Lys
85          90          95

Glu ile Ser Phe Gly Gly Cys Leu Ser His Met Phe Phe ile His Phe
100         105         110

Phe Thr Ala Met Glu Ser ile Val Leu Val Ala Met Ala Phe Asp Arg
115         120         125

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WO 02/24726

PCT/BE01/00162

Tyr Ile Ala Ile Cys Lys Pro Leu Arg Tyr Thr Met Ile Leu Thr Ser
130 135 140

Lys Ile Ile Ser Leu Ile Ala Gly Ile Ala Val Leu Arg Ser Leu Tyr
145 150 155 160

Met Val Val Pro Leu Val Phe Leu Leu Leu Arg Leu Pro Phe Cys Gly
165 170 175

His Arg Ile Ile Pro His Thr Tyr Cys Glu His Met Gly Ile Ala Arg
180 185 190

Leu Ala Cys Ala Ser Ile Lys Val Asn Ile Arg Phe Gly Leu Gly Asn
195 200 205

Ile Ser Leu Leu Leu Leu Asp Val Ile Leu Ile Ile Leu Ser Tyr Val
210 215 220

Arg Ile Leu Tyr Ala Val Phe Cys Leu Pro Ser Trp Glu Ala Arg Leu
225 230 235 240

Lys Ala Leu Asn Thr Cys Gly Ser His Ile Gly Val Ile Leu Ala Phe
245 250 255

Phe Thr Pro Ala Phe Phe Ser Phe Leu Thr His Arg Phe Gly His Asn
260 265 270

Ile Pro Gln Tyr Ile His Ile Ile Leu Ala Asn Leu Tyr Val Val Val
275 280 285

Pro Pro Ala Leu Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile
290 295 300

Arg Glu Arg Val Leu Arg Ile Phe Leu Lys Thr Asn His
305 310 315

<210> 397
<211> 975
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(972)
<223>

<400> 397

WO 02/24726

PCT/BE01/00162

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atg cct cta ttt aat tca tta tgc tgg ttt cca acc att cat gtg act      48
Met Pro Leu Phe Asn Ser Leu Cys Trp Phe Pro Thr Ile His Val Thr
1      5      10      15

cct cca tct ttt att ctt aat gga ata cct ggt ctg gaa aga gta cat      96
Pro Pro Ser Phe Ile Leu Asn Gly Ile Pro Gly Leu Glu Arg Val His
20     25     30

gta tgg atc tcc ctc cca ctc tgc aca atg tac atc atc ttc ctt gtg      144
Val Trp Ile Ser Leu Pro Leu Cys Thr Met Tyr Ile Ile Phe Leu Val
35     40     45

ggg aat ctt ggt ctt gtg tac ctc att tat tat gag gag tcc tta cat      192
Gly Asn Leu Gly Leu Val Tyr Leu Ile Tyr Tyr Glu Glu Ser Leu His
50     55     60

cat cag atg tat ttt ttt ttt ggc cat gct ctc tcc ctc att gac ctc      240
His Pro Met Tyr Phe Phe Phe Gly His Ala Leu Ser Leu Ile Asp Leu
65     70     75     80

ctt acc tgc acc acc act cta ccc aat goa ctc tgc atc ttc tgg ttc      288
Leu Thr Cys Thr Thr Leu Pro Asn Ala Leu Cys Ile Phe Trp Phe
85     90     95

agt ctc aaa gaa att aac ttc aat gct tgc ttg gcc cag atg ttc ttt      336
Ser Leu Lys Glu Ile Asa Phe Asn Ala Cys Leu Ala Gln Met Phe Phe
100    105    110

ggt cat ggg ttc aca ggt gtg gag tot ggg gtg ctc atg ctc atg gct      384
Val His Gly Phe Thr Gly Val Glu Ser Gly Val Leu Met Leu Met Ala
115    120    125

cta gac cgc tat gta gcc att tgc tac cct ttg cgt tat gct acc aca      432
Leu Asp Arg Tyr Val Ala Ile Cys Tyr Pro Leu Arg Tyr Ala Thr Thr
130    135    140

ctc acc aac cct atc att gcc aag gct gag ctt gcc acc ttc ctg agg      480
Leu Thr Asn Pro Ile Ile Ala Lys Ala Glu Leu Ala Thr Phe Leu Arg
145    150    155    160

ggt gta ttg ctg atg att cct ttc cca ttc ttg gtt aag cgt ttg cct      528
Gly Val Leu Leu Met Ile Pro Phe Pro Phe Leu Val Lys Arg Leu Pro
165    170    175

ttc tgc caa agc aat att atc tcc cat acg tac tgc gac cac atg tct      576
Phe Cys Gln Ser Asn Ile Ile Ser His Thr Tyr Cys Asp His Met Ser
180    185    190

gta gta aag cta tct tgt gcc agc atc aag gtc aat gta atc tat ggt      624
Val Val Lys Leu Ser Cys Ala Ser Ile Lys Val Asn Val Ile Tyr Gly
195    200    205

cta atg gtt gct ctc ctg att gga gtg ttt gac att tgt tgt ata tct      672
Leu Met Val Ala Leu Leu Ile Gly Val Phe Asp Ile Cys Cys Ile Ser
210    215    220

ttg tct tac act ttg atc ctc aag goa gag atc agc ctc tot tca tca      720
Leu Ser Tyr Thr Leu Ile Leu Lys Ala Ala Ile Ser Leu Ser Ser Ser
225    230    235    240

gat gct cgg cag aag gct ttc agc acc tgc act gcc cat ata tct gcc      768

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WO 02/24726

PCT/BE01/00162

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Asp Ala Arg Gln Lys Ala Phe Ser Thr Cys Thr Ala His Ile Ser Ala
      245              250              255

atc atc atc acc tat gtt cca gca ttc ttc act ttc ttt gcc cac cgt      816
Ile Ile Ile Thr Tyr Val Pro Ala Phe Phe Thr Phe Phe Ala His Arg
      260              265              270

ttt ggg gga cac aca att ccc cct tct ctt cac atc att gtg gct aat      864
Phe Gly Gly His Thr Ile Pro Pro Ser Leu His Ile Ile Val Ala Asn
      275              280              285

ctt tat ctt ctt ctt ccc cca act cta aac cct att gtt tat gga gta      912
Leu Tyr Leu Leu Leu Pro Pro Thr Leu Asn Pro Ile Val Tyr Gly Val
      290              295              300

aag aca aak cag ata cgc aag agt gtc ata aag ttc ttc cag ggt gat      960
Lys Thr Lys Gln Ile Arg Lys Ser Val Ile Lys Phe Phe Gln Gly Asp
      305              310              315              320

aag ggt gca ggt tga      975
Lys Gly Ala Gly

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<210> 398
 <211> 324
 <212> PRT
 <213> Homo Sapiens

<400> 398

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Met Pro Leu Phe Asn Ser Leu Cys Trp Phe Pro Thr Ile His Val Thr
1      5      10      15

Pro Pro Ser Phe Ile Leu Asn Gly Ile Pro Gly Leu Glu Arg Val His
20      25      30

Val Trp Ile Ser Leu Pro Leu Cys Thr Met Tyr Ile Ile Phe Leu Val
35      40      45

Gly Asn Leu Gly Leu Val Tyr Leu Ile Tyr Tyr Glu Glu Ser Leu His
50      55      60

His Pro Met Tyr Phe Phe Phe Gly His Ala Leu Ser Leu Ile Asp Leu
65      70      75      80

Leu Thr Cys Thr Thr Thr Leu Pro Asn Ala Leu Cys Ile Phe Trp Phe
85      90      95

Ser Leu Lys Glu Ile Asn Phe Asn Ala Cys Leu Ala Gln Met Phe Phe
100     105     110

Val His Gly Phe Thr Gly Val Glu Ser Gly Val Leu Met Leu Met Ala
115     120     125

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PCT/BE01/00162

Leu Asp Arg Tyr Val Ala Ile Cys Tyr Pro Leu Arg Tyr Ala Thr Thr
 130 135 140

Leu Thr Asn Pro Ile Ile Ala Lys Ala Glu Leu Ala Thr Phe Leu Arg
 145 150 155 160

Gly Val Leu Leu Met Ile Pro Phe Pro Phe Leu Val Lys Arg Leu Pro
 165 170 175

Phe Cys Gln Ser Asn Ile Ile Ser His Thr Tyr Cys Asp His Met Ser
 180 185 190

Val Val Lys Leu Ser Cys Ala Ser Ile Lys Val Asn Val Ile Tyr Gly
 195 200 205

Leu Met Val Ala Leu Leu Ile Gly Val Phe Asp Ile Cys Cys Ile Ser
 210 215 220

Leu Ser Tyr Thr Leu Ile Leu Lys Ala Ala Ile Ser Leu Ser Ser Ser
 225 230 235 240

Asp Ala Arg Gln Lys Ala Phe Ser Thr Cys Thr Ala His Ile Ser Ala
 245 250 255

Ile Ile Ile Thr Tyr Val Pro Ala Phe Phe Thr Phe Phe Ala His Arg
 260 265 270

Phe Gly Gly His Thr Ile Pro Pro Ser Leu His Ile Ile Val Ala Asn
 275 280 285

Leu Tyr Leu Leu Leu Pro Pro Thr Leu Asn Pro Ile Val Tyr Gly Val
 290 295 300

Lys Thr Lys Gln Ile Arg Lys Ser Val Ile Lys Phe Phe Gln Gly Asp
 305 310 315 320

Lys Gly Ala Gly

<210> 399
 <211> 972
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS

WO 02/24726

PCT/BE01/00162

<223> (1)...(969)
 <223>

<400> 399
 atg agt cac acc aat gtt acc atc ttc cat cct gca gtt ttt gtc att 48
 Met Ser His Thr Asn Val Thr Ile Phe His Pro Ala Val Phe Val Leu
 1 5 10 15
 cct ggc atc cct ggg ttg gag gct tat cac att tgg ctg tca ata cct 96
 Pro Gly Ile Pro Gly Leu Glu Ala Tyr His Ile Trp Leu Ser Ile Pro
 20 25 30
 ctt tgc ctc att tac atc act gca gtc ctg gga aac agc atc ctg ata 144
 Leu Cys Leu Ile Tyr Ile Thr Ala Val Leu Gly Asn Ser Ile Leu Ile
 35 40 45
 gtg gtt att gtc atg gaa cgt aac ctt cat gtg ccc atg tat ttc ttc 192
 Val Val Ile Val Met Glu Arg Asn Leu His Val Pro Met Tyr Phe Phe
 50 55 60
 ctg tca atg ctg gcc gtc atg gac atc ctg ctg tct acc acc act gtg 240
 Leu Ser Met Leu Ala Val Met Asp Ile Leu Leu Ser Thr Thr Thr Val
 65 70 75
 ccc aag gcc cta gcc atc ttt tgg ctt caa gca cat aac att gct ttt 288
 Pro Lys Ala Leu Ala Ile Phe Trp Leu Gln Ala His Asn Ile Ala Phe
 85 90 95
 gat gcc tgt gtc acc caa ggc ttc ttt gtc cat atg atg ttt gtg ggg 336
 Asp Ala Cys Val Thr Gln Gly Phe Phe Val His Met Met Phe Val Gly
 100 105 110
 gag tca gct atc ctg tta gcc atg gcc ttt gat cgc ttt gtg gcc att 384
 Glu Ser Ala Ile Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile
 115 120 125
 tgt gcc cca ctg aga tat aca aca gtg cta aca tgg cct gtt gtg ggg 432
 Cys Ala Pro Leu Arg Tyr Thr Thr Val Leu Thr Trp Pro Val Val Gly
 130 135 140
 agg att gct ctg gcc gtc atc aac cga agc ttc tgc atc atc ttc cca 480
 Arg Ile Ala Leu Ala Val Ile Thr Arg Ser Phe Cys Ile Ile Phe Pro
 145 150 155 160
 gtc ata ttc ttg ctg aag cgg ctg ccc ttc tgc cta acc aac att gtt 528
 Val Ile Phe Leu Leu Lys Arg Leu Pro Phe Cys Leu Thr Asn Ile Val
 165 170 175
 cct cac tcc tac tgt gag cat att gga gtg got cgt tta gcc tgt gct 576
 Pro His Ser Tyr Cys Glu His Ile Gly Val Ala Arg Leu Ala Cys Ala
 180 185 190
 gac atc act gtt aac att tgg tat ggc ttc tca gtg ccc att gtc atg 624
 Asp Ile Thr Val Asn Ile Trp Tyr Gly Phe Ser Val Pro Ile Val Met
 195 200 205
 gtc atc ttg gat gtt atc ctc atc got gtg tot tac tca ctg atc ctc 672
 Val Ile Leu Asp Val Ile Leu Ile Ala Val Ser Tyr Ser Leu Ile Leu
 210 215 220

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```

cga gca gtg ttt cgt ttg ccc tcc cag gat gct cgg cac aag gcc ctc      720
Arg Ala Val Phe Arg Leu Pro Ser Gln Asp Ala Arg His Lys Ala Leu
225                230                235                240

agg act tgt ggc tcc cag ctc tgt gtc atc ctt atg ttt tat gtt cca      768
Ser Thr Cys Gly Ser His Leu Cys Val Ile Leu Met Phe Tyr Val Pro
245                250                255

tcc ttc ttt acc tta ttg acc cat cat ttt ggg cgt aat att cct caa      816
Ser Phe Phe Thr Leu Leu Thr His His Phe Gly Arg Asn Ile Pro Gln
260                265                270

cat gtc cat atc ttg ctg gcc aat ctt tat gtg gca gtg cca cca atg      864
His Val His Ile Leu Leu Ala Asn Leu Tyr Val Ala Val Pro Pro Met
275                280                285

ctg aac ccc att gtc tat ggt gtg aag act aag cag ata cgt gag ggt      912
Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Gly
290                295                300

gta gcc cac cgg ttc ttt gac atc aag act tgg tgc tgt acc tcc cct      960
Val Ala His Arg Phe Phe Asp Ile Lys Thr Trp Cys Cys Thr Ser Pro
305                310                315                320

ctg gcc tca tga
Leu Gly Ser
972

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<210> 400
<211> 323
<212> PRT
<213> Homo Sapiens

```

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<400> 400

```

```

Met Ser His Thr Asn Val Thr Ile Phe His Pro Ala Val Phe Val Leu
1          5          10          15

```

```

Pro Gly Ile Pro Gly Leu Glu Ala Tyr His Ile Trp Leu Ser Ile Pro
20          25          30

```

```

Leu Cys Leu Ile Tyr Ile Thr Ala Val Leu Gly Asn Ser Ile Leu Ile
35          40          45

```

```

Val Val Ile Val Met Glu Arg Asn Leu His Val Pro Met Tyr Phe Phe
50          55          60

```

```

Leu Ser Met Leu Ala Val Met Asp Ile Leu Leu Ser Thr Thr Thr Val
65          70          75          80

```

```

Pro Lys Ala Leu Ala Ile Phe Trp Leu Gln Ala His Asn Ile Ala Phe
85          90          95

```

```

Asp Ala Cys Val Thr Gln Gly Phe Phe Val His Met Met Phe Val Gly

```

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100 105 110
 Glu Ser Ala Ile Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile
 115 120 125
 Cys Ala Pro Leu Arg Tyr Thr Thr Val Leu Thr Trp Pro Val Val Gly
 130 135 140
 Arg Ile Ala Leu Ala Val Ile Thr Arg Ser Phe Cys Ile Ile Phe Pro
 145 150 155 160
 Val Ile Phe Leu Leu Lys Arg Leu Pro Phe Cys Leu Thr Asn Ile Val
 165 170 175
 Pro His Ser Tyr Cys Glu His Ile Gly Val Ala Arg Leu Ala Cys Ala
 180 185 190
 Asp Ile Thr Val Asn Ile Trp Tyr Gly Phe Ser Val Pro Ile Val Met
 195 200 205
 Val Ile Leu Asp Val Ile Leu Ile Ala Val Ser Tyr Ser Leu Ile Leu
 210 215 220
 Arg Ala Val Phe Arg Leu Pro Ser Gln Asp Ala Arg His Lys Ala Leu
 225 230 235 240
 Ser Thr Cys Gly Ser His Leu Cys Val Ile Leu Met Phe Tyr Val Pro
 245 250 255
 Ser Phe Phe Thr Leu Leu Thr His His Phe Gly Arg Asn Ile Pro Gln
 260 265 270
 His Val His Ile Leu Leu Ala Asn Leu Tyr Val Ala Val Pro Pro Met
 275 280 285
 Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Gly
 290 295 300
 Val Ala His Arg Phe Phe Asp Ile Lys Thr Trp Cys Cys Thr Ser Pro
 305 310 315 320
 Leu Gly Ser

<210> 401
 <211> 963

WO 02/24726

PCT/BE01/00162

<212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(963)
 <223>

<400> 401
 atg gca gaa act cta caa ctc aat tcc acc ttc cta cac cca sac ttc 48
 Met Ala Glu Thr Leu Gln Leu Asn Ser Thr Phe Leu His Pro Asn Phe
 1 5 10 15
 ttc ata ctg act ggc ttt cca ggg cta gga agt gcc cag act tgg ctg 96
 Phe Ile Leu Thr Gly Phe Pro Gly Leu Gly Ser Ala Gln Thr Trp Leu
 20 25 30
 aca ctg gtc ttt ggg ccc att tat ctg ctg gcc ctg ctg ggc aat gga 144
 Thr Leu Val Phe Gly Pro Ile Tyr Leu Leu Ala Leu Leu Gly Asn Gly
 35 40 45
 gca ctg ccg gca ctg ctg tgg ata gac tcc aca ctg ccc cag ccc atg 192
 Ala Leu Pro Ala Val Val Trp Ile Asp Ser Thr Leu His Gln Pro Met
 50 55 60
 ttt cta ctg ttg gcc atc ctg gca gcc aca gac ctg ggc tta gcc aca 240
 Phe Leu Leu Leu Ala Ile Leu Ala Ala Thr Asp Leu Gly Leu Ala Thr
 65 70 75 80
 tct ata gcc cca ggg ttg ctg gct gtg ctg tgg ctt ggg ccc cga tct 288
 Ser Ile Ala Pro Gly Leu Leu Ala Val Leu Trp Leu Gly Pro Arg Ser
 85 90 95
 gtg cca tat gct gtg tgc ctg gtc cag atg ttc ttt gta cat gca ctg 336
 Val Pro Tyr Ala Val Cys Leu Val Gln Met Phe Phe Val His Ala Leu
 100 105 110
 act gcc atg gaa tca ggt gtg ctt ttg gcc atg gcc tgt gat cgt gct 384
 Thr Ala Met Glu Ser Gly Val Leu Leu Ala Met Ala Cys Asp Arg Ala
 115 120 125
 gcg gca ata ggg cgt cca ctg cac tac cct gtc ctg gtc acc aaa gcc 432
 Ala Ala Ile Gly Arg Pro Leu His Tyr Pro Val Leu Val Thr Lys Ala
 130 135 140
 tgt gtg ggt tat gca gcc ttg gcc ctg gca ctg aaa gct gtg gct att 480
 Cys Val Gly Tyr Ala Ala Leu Ala Leu Ala Leu Lys Ala Val Ala Ile
 145 150 155 160
 gtt gta cct ttc cca ctg ctg gtg gca aag ttt gag cac ttc caa gcc 528
 Val Val Pro Phe Pro Leu Leu Val Ala Lys Phe Glu His Phe Gln Ala
 165 170 175
 aag acc ata ggc cat acc tat tgt gca cac atg gca gtg gta gaa ctg 576
 Lys Thr Ile Gly His Thr Tyr Cys Ala His Met Ala Val Val Glu Leu
 180 185 190
 gtg gtg ggt aac aca cag gcc acc aac tta tat ggt ctg gca ctt tca 624
 Val Val Gly Asn Thr Gln Ala Thr Asn Leu Tyr Gly Leu Ala Leu Ser
 195 200 205

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```

ctg gcc atc tca ggt atg gat att ctg ggt atc act gcc tcc tat gga      672
Leu Ala Ile Ser Gly Met Asp Ile Leu Gly Ile Thr Gly Ser Tyr Gly
210                215                220

ctc att gcc cat gct gtg ctg cag cta cct acc cgg gag gcc cat gcc      720
Leu Ile Ala His Ala Val Leu Gln Leu Pro Thr Arg Glu Ala His Ala
225                230                235                240

aag gcc ttt ggt aca tgt agt tct cac atc tgt gtc att ctg gcc ttc      768
Lys Ala Phe Gly Thr Cys Ser Ser His Ile Cys Val Ile Leu Ala Phe
245                250                255

tac ata cct ggt ctc ttc tcc tac ctc aca cac cgc ttt ggt cat cac      816
Tyr Ile Pro Gly Leu Phe Ser Tyr Leu Thr His Arg Phe Gly His His
260                265                270

act gtc cca aag cct gtg cac atc ctt ctc tcc aac atc tac ttg ctg      864
Thr Val Pro Lys Pro Val His Ile Leu Leu Ser Asn Ile Tyr Leu Leu
275                280                285

ctg cca cct gcc ctc aac ccc ctc atc tat ggg gcc cgc acc aag cag      912
Leu Pro Pro Ala Leu Asn Pro Leu Ile Tyr Gly Ala Arg Thr Lys Gln
290                295                300

atc aga gac cga ctc ctg gaa acc ttc aca ttc aga aaa agc cgg ttg      960
Ile Arg Asp Arg Leu Leu Glu Thr Phe Thr Phe Arg Lys Ser Pro Leu
305                310                315                320

taa                                                                963

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<210> 402
 <211> 320
 <212> PRT
 <213> Homo Sapiens

<400> 402

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Met Ala Glu Thr Leu Gln Leu Asn Ser Thr Phe Leu His Pro Asn Phe
1      5      10      15

Phe Ile Leu Thr Gly Phe Pro Gly Leu Gly Ser Ala Gln Thr Trp Leu
20     25     30

Thr Leu Val Phe Gly Pro Ile Tyr Leu Leu Ala Leu Leu Gly Asn Gly
35     40     45

Ala Leu Pro Ala Val Val Trp Ile Asp Ser Thr Leu His Gln Pro Met
50     55     60

Phe Leu Leu Leu Ala Ile Leu Ala Ala Thr Asp Leu Gly Leu Ala Thr
65     70     75     80

Ser Ile Ala Pro Gly Leu Leu Ala Val Leu Trp Leu Gly Pro Arg Ser
85     90     95

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Val Pro Tyr Ala Val Cys Leu Val Gln Met Phe Phe Val His Ala Leu
 100 105 110

Thr Ala Met Glu Ser Gly Val Leu Leu Ala Met Ala Cys Asp Arg Ala
 115 120 125

Ala Ala Ile Gly Arg Pro Leu His Tyr Pro Val Leu Val Thr Lys Ala
 130 135 140

Cys Val Gly Tyr Ala Ala Leu Ala Leu Ala Leu Lys Ala Val Ala Ile
 145 150 155 160

Val Val Pro Phe Pro Leu Leu Val Ala Lys Phe Glu His Phe Gln Ala
 165 170 175

Lys Thr Ile Gly His Thr Tyr Cys Ala His Met Ala Val Val Glu Leu
 180 185 190

Val Val Gly Asn Thr Gln Ala Thr Asn Leu Tyr Gly Leu Ala Leu Ser
 195 200 205

Leu Ala Ile Ser Gly Met Asp Ile Leu Gly Ile Thr Gly Ser Tyr Gly
 210 215 220

Leu Ile Ala His Ala Val Leu Gln Leu Pro Thr Arg Glu Ala His Ala
 225 230 235 240

Lys Ala Phe Gly Thr Cys Ser Ser His Ile Cys Val Ile Leu Ala Phe
 245 250 255

Tyr Ile Pro Gly Leu Phe Ser Tyr Leu Thr His Arg Phe Gly His His
 260 265 270

Thr Val Pro Lys Pro Val His Ile Leu Leu Ser Asn Ile Tyr Leu Leu
 275 280 285

Leu Pro Pro Ala Leu Asn Pro Leu Ile Tyr Gly Ala Arg Thr Lys Gln
 290 295 300

Ile Arg Asp Arg Leu Leu Glu Thr Phe Thr Phe Arg Lys Ser Pro Leu
 305 310 315 320

<210> 493
 <211> 960
 <212> DNA

WO 02/24726

PCT/BE01/00162

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(957)

<223>

<400> 403

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atg gat acc tcc acc agt gtt acc tat gac tcc agc ctc cag att tcc      48
Met Asp Thr Ser Thr Ser Val Thr Tyr Asp Ser Ser Leu Gln Ile Ser
1          5          10          15

cag ttc atc ctg atg gga tta cca ggc att cat gag tgg cag cac tgg      96
Gln Phe Ile Leu Met Gly Leu Pro Gly Ile His Glu Trp Gln His Trp
          20          25          30

ctc tcc ctg ccc ctg act ctg ctc tac ctc tta gct ctt ggt gcc aac     144
Leu Ser Leu Pro Leu Thr Leu Leu Tyr Leu Leu Ala Leu Gly Ala Asn
          35          40          45

ctc ctc atc ata atc acc att caa cat gag acc gtc cta cat gaa ccc     192
Leu Leu Ile Ile Ile Thr Ile Gln His Glu Thr Val Leu His Glu Pro
          50          55          60

atg tac cat ttg ctg ggc ata tta gca gtg gtg gac att ggc ctg gcc     240
Met Tyr His Leu Leu Gly Ile Leu Ala Val Val Asp Ile Gly Leu Ala
          65          70          75          80

acc acc atc atg ccc asg atc ctg gcc atc ttc tgg ttt gat gcc aag     288
Thr Thr Ile Met Pro Lys Ile Leu Ala Ile Phe Trp Phe Asp Ala Lys
          85          90          95

gcc att agc ctc ccc atg tgt ttt gct cag atc tat gcc atc cac tgc     336
Ala Ile Ser Leu Pro Met Cys Phe Ala Gln Ile Tyr Ala Ile His Cys
          100          105          110

ttc ttc tgc ata gag tca ggc atc ttt ctc tgc atg gca gta gac aga     384
Phe Phe Cys Ile Glu Ser Gly Ile Phe Leu Cys Met Ala Val Asp Arg
          115          120          125

tac ata gcc atc tgt cgc cct ctt cag tac ccc tcc ata gtc act aaa     432
Tyr Ile Ala Ile Cys Arg Pro Leu Gln Tyr Pro Ser Ile Val Thr Lys
          130          135          140

gct ttt gtc ttc aaa gcc aca ggg ttc atc atg ctc agg aat ggc ctg     480
Ala Phe Val Phe Lys Ala Thr Gly Phe Ile Met Leu Arg Asn Gly Leu
          145          150          155          160

ttg acc atc cca gtg cct ata ctg gct gcc cag aga cac tac tgt tcc     528
Leu Thr Ile Pro Val Pro Ile Leu Ala Ala Gln Arg His Tyr Cys Ser
          165          170          175

agg aat gaa atc gag cac tgc ctc tgc tct aac ttg ggg gtt atc agc     576
Arg Asn Glu Ile Glu His Cys Leu Cys Ser Asn Leu Gly Val Ile Ser
          180          185          190

ctg gct tgt gat gac atc act gtg aac aaa ttt tac caa ctg atg cta     624
Leu Ala Cys Asp Asp Ile Thr Val Asn Lys Phe Tyr Gln Leu Met Leu
          195          200          205

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gca tgg gtc ttg gtt ggg agt gat atg got ctg gta ttt tct tcc tat      672
Ala Trp Val Leu Val Gly Ser Asp Met Ala Leu Val Phe Ser Ser Tyr
210                215                220

gct gta atc ctt cac tct gbg ctg agg ctg aac tca gca gaa gca atg      720
Ala Val Ile Leu His Ser Val Leu Arg Leu Asn Ser Ala Glu Ala Met
225                230                235                240

tcc aag got ctg agc act tgt agc tcc cac ctg atc ctc atc ctc ttc      768
Ser Lys Ala Leu Ser Thr Cys Ser Ser His Leu Ile Leu Ile Leu Phe
245                250                255

cac aca ggt atc att gbg ctg tct gtc aca cac ctt gca gag aaa aag      816
His Thr Gly Ile Ile Val Leu Ser Val Thr His Leu Ala Glu Lys Lys
260                265                270

att ccc ctt att cct gbg ttc ctt aat gbg ctg cac aat gtc atc ccc      864
Ile Pro Leu Ile Pro Val Phe Leu Asn Val Leu His Asn Val Ile Pro
275                280                285

cct gca ctg aac ccc ctg gcc tgt gca ctg agg atg cac aaa ctg aga      912
Pro Ala Leu Asn Pro Leu Ala Cys Ala Leu Arg Met His Lys Leu Arg
290                295                300

ctg ggc ttt cag aga ctg ctt gga ctg ggt cag gac gbg tcc aag taa      960
Leu Gly Phe Gln Arg Leu Leu Gly Leu Gly Gln Asp Val Ser Lys
305                310                315

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<210> 404
 <211> 319
 <212> PRT
 <213> Homo Sapiens

<400> 404

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Met Asp Thr Ser Thr Ser Val Thr Tyr Asp Ser Ser Leu Gln Ile Ser
1          5          10          15

Gln Phe Ile Leu Met Gly Leu Pro Gly Ile His Glu Trp Gln His Trp
20          25          30

Leu Ser Leu Pro Leu Thr Leu Leu Tyr Leu Leu Ala Leu Gly Ala Asn
35          40          45

Leu Leu Ile Ile Ile Thr Ile Gln His Glu Thr Val Leu His Glu Pro
50          55          60

Met Tyr His Leu Leu Gly Ile Leu Ala Val Val Asp Ile Gly Leu Ala
65          70          75          80

Thr Thr Ile Met Pro Lys Ile Leu Ala Ile Phe Trp Phe Asp Ala Lys
85          90          95

Ala Ile Ser Leu Pro Met Cys Phe Ala Gln Ile Tyr Ala Ile His Cys

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PCT/BE01/00162

100 105 110
 Phe Phe Cys Ile Glu Ser Gly Ile Phe Leu Cys Met Ala Val Asp Arg
 115 120 125
 Tyr Ile Ala Ile Cys Arg Pro Leu Gln Tyr Pro Ser Ile Val Thr Lys
 130 135 140
 Ala Phe Val Phe Lys Ala Thr Gly Phe Ile Met Leu Arg Asn Gly Leu
 145 150 155 160
 Leu Thr Ile Pro Val Pro Ile Leu Ala Ala Gln Arg His Tyr Cys Ser
 165 170 175
 Arg Asn Glu Ile Glu His Cys Leu Cys Ser Asn Leu Gly Val Ile Ser
 180 185 190
 Leu Ala Cys Asp Asp Ile Thr Val Asn Lys Phe Tyr Gln Leu Met Leu
 195 200 205
 Ala Trp Val Leu Val Gly Ser Asp Met Ala Leu Val Phe Ser Ser Tyr
 210 215 220
 Ala Val Ile Leu His Ser Val Leu Arg Leu Asn Ser Ala Glu Ala Met
 225 230 235 240
 Ser Lys Ala Leu Ser Thr Cys Ser Ser His Leu Ile Leu Ile Leu Phe
 245 250 255
 His Thr Gly Ile Ile Val Leu Ser Val Thr His Leu Ala Glu Lys Lys
 260 265 270
 Ile Pro Leu Ile Pro Val Phe Leu Asn Val Leu His Asn Val Ile Pro
 275 280 285
 Pro Ala Leu Asn Pro Leu Ala Cys Ala Leu Arg Met His Lys Leu Arg
 290 295 300
 Leu Gly Phe Gln Arg Leu Leu Gly Leu Gly Gln Asp Val Ser Lys
 305 310 315
 <210> 405
 <211> 963
 <212> DNA
 <213> Homo Sapiens
 <220>

WO 02/24726

PCT/BE01/00162

<221> CDS
 <223> (1)..(963)
 <223>

<400> 405
 atg gca gaa act cta caa ctc aat tcc acc ttc cta cac cca aac ttc 48
 Met Ala Glu Thr Leu Gln Leu Asn Ser Thr Phe Leu His Pro Asn Phe
 1 5 10 15
 ttc ata ctg act ggc ttt cca ggg cta gga agt gcc cag act tgg ctg 96
 Phe Ile Leu Thr Gly Phe Pro Gly Leu Gly Ser Ala Gln Thr Trp Leu
 20 25 30
 aca ctg gtc ttt ggg ccc att tat ctg ctg gcc ctg ctg ggc aat gga 144
 Thr Leu Val Phe Gly Pro Ile Tyr Leu Leu Ala Leu Leu Gly Asn Gly
 35 40 45
 gca ctg ctg gca gtc gtc tgg ata gac tcc aca ctg cac cag ccc atg 192
 Ala Leu Pro Ala Val Val Trp Ile Asp Ser Thr Leu His Gln Pro Met
 50 55 60
 ttt cta ctg ttg gcc atc ctg gca gcc aca gac ctg ggc tta gcc aca 240
 Phe Leu Leu Leu Ala Ile Leu Ala Ala Thr Asp Leu Gly Leu Ala Thr
 65 70 75 80
 tct ata gcc cca ggg ttg ctg gct gtg ctg tgg ctt ggg ccc cga tct 288
 Ser Ile Ala Pro Gly Leu Leu Ala Val Leu Trp Leu Gly Pro Arg Ser
 85 90 95
 gtg cca tat gct gtg tgc ctg gtc cag atg ttc ttt gta cat gca ctg 336
 Val Pro Tyr Ala Val Cys Leu Val Gln Met Phe Phe Val His Ala Leu
 100 105 110
 act gcc atg gaa tca ggt gtg ctt ttg gcc atg gcc tgt gat cgt gct 384
 Thr Ala Met Glu Ser Gly Val Leu Leu Ala Met Ala Cys Asp Arg Ala
 115 120 125
 gcg gca ata ggg cgt cca ctg cac tac cct gtc ctg gtc acc aaa gcc 432
 Ala Ala Ile Gly Arg Pro Leu His Tyr Pro Val Leu Val Thr Lys Ala
 130 135 140
 tgt gtg ggt tat gca gcc ttg gcc ctg gca ctg aaa gct gtg gct att 480
 Cys Val Gly Tyr Ala Ala Leu Ala Leu Ala Leu Lys Ala Val Ala Ile
 145 150 155 160
 gtt gta cct ttc cca ctg ctg gtg gca aag ttt gag cac ttc caa gcc 528
 Val Val Pro Phe Pro Leu Leu Val Ala Lys Phe Glu His Phe Gln Ala
 165 170 175
 aag acc ata ggc cat acc tat tgt gca cac atg gca gtg gta gaa ctg 576
 Lys Thr Ile Gly His Thr Tyr Cys Ala His Met Ala Val Val Glu Leu
 180 185 190
 gtg gtg ggt aac aca cag gcc acc aac tta tat ggt ctg gca ctt tca 624
 Val Val Gly Asn Thr Gln Ala Thr Asn Leu Tyr Gly Leu Ala Leu Ser
 195 200 205
 ctg gcc atc tca ggt atg gat att ctg ggt atc act ggc tcc tat gga 672
 Leu Ala Ile Ser Gly Met Asp Ile Leu Gly Ile Thr Gly Ser Tyr Gly
 210 215 220

WO 02/24726

PCT/BE01/00162

```

ctc att gcc cat gct gtg ctg cag cta cct acc cgg gag gcc cat gcc      720
Leu Ile Ala His Ala Val Leu Gln Leu Pro Thr Arg Glu Ala His Ala
225                230                235                240

aag gcc ttt ggt aca tgt agt tct cac atc tgt gtc att ctg gcc ttc      768
lys Ala Phe Gly Thr Cys Ser Ser His Ile Cys Val Ile Leu Ala Phe
245                250                255

tac ata cct ggt ctc ttc tcc tac ctc gca cac cgc ttt ggt cat cac      816
Tyr Ile Pro Gly Leu Phe Ser Tyr Leu Ala His Arg Phe Gly His His
260                265                270

act gtc cca aag cct gtg cac atc ctt ctc tcc aac atc tac ttg ctg      864
Thr Val Pro Lys Pro Val His Ile Leu Leu Ser Asn Ile Tyr Leu Leu
275                280                285

ctg cca cct gcc ctc aac ccc ctc atc tat ggg gcc cgc acc aag cag      912
Leu Pro Pro Ala Leu Asn Pro Leu Ile Tyr Gly Ala Arg Thr Lys Gln
290                295                300

atc aga gac cga ctc ctg gaa acc ttc aca ttc aga aaa agc cgg ttg      960
Ile Arg Asp Arg Leu Leu Glu Thr Phe Thr Phe Arg Lys Ser Pro Leu
305                310                315                320

taa                                                                963

```

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<210> 406
<211> 320
<212> PRT
<213> Homo Sapiens

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```

<400> 406

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Met Ala Glu Thr Leu Gln Leu Asn Ser Thr Phe Leu His Pro Asn Phe
1      5      10      15

Phe Ile Leu Thr Gly Phe Pro Gly Leu Gly Ser Ala Gln Thr Trp Leu
20     25     30

Thr Leu Val Phe Gly Pro Ile Tyr Leu Leu Ala Leu Leu Gly Asn Gly
35     40     45

Ala Leu Pro Ala Val Val Trp Ile Asp Ser Thr Leu His Gln Pro Met
50     55     60

Phe Leu Leu Leu Ala Ile Leu Ala Ala Thr Asp Leu Gly Leu Ala Thr
65     70     75     80

Ser Ile Ala Pro Gly Leu Leu Ala Val Leu Trp Leu Gly Pro Arg Ser
85     90     95

Val Pro Tyr Ala Val Cys Leu Val Gln Met Phe Phe Val His Ala Leu
100    105    110

```

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PCT/BE01/00162

Thr Ala Met Glu Ser Gly Val Leu Leu Ala Met Ala Cys Asp Arg Ala
 115 120 125
 Ala Ala Ile Gly Arg Pro Leu His Tyr Pro Val Leu Val Thr Lys Ala
 130 135 140
 Cys Val Gly Tyr Ala Ala Leu Ala Leu Ala Leu Lys Ala Val Ala Ile
 145 150 155 160
 Val Val Pro Phe Pro Leu Leu Val Ala Lys Phe Glu His Phe Gln Ala
 165 170 175
 Lys Thr Ile Gly His Thr Tyr Cys Ala His Met Ala Val Val Glu Leu
 180 185 190
 Val Val Gly Asn Thr Gln Ala Thr Asn Leu Tyr Gly Leu Ala Leu Ser
 195 200 205
 Leu Ala Ile Ser Gly Met Asp Ile Leu Gly Ile Thr Gly Ser Tyr Gly
 210 215 220
 Leu Ile Ala His Ala Val Leu Gln Leu Pro Thr Arg Glu Ala His Ala
 225 230 235 240
 Lys Ala Phe Gly Thr Cys Ser Ser His Ile Cys Val Ile Leu Ala Phe
 245 250 255
 Tyr Ile Pro Gly Leu Phe Ser Tyr Leu Ala His Arg Phe Gly His His
 260 265 270
 Thr Val Pro Lys Pro Val His Ile Leu Leu Ser Asn Ile Tyr Leu Leu
 275 280 285
 Leu Pro Pro Ala Leu Asn Pro Leu Ile Tyr Gly Ala Arg Thr Lys Gln
 290 295 300
 Ile Arg Asp Arg Leu Leu Glu Thr Phe Thr Phe Arg Lys Ser Pro Leu
 305 310 315 320

<210> 407
 <211> 1008
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS

WO 02/24726

PCT/BE01/00162

<222> (1) .. (1005)
 <223>

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<400> 407
atg gca cag gtg agg gag ctg cat aaa atc atg gcc ctt ttt tct gct      48
Met Ala Gln Val Arg Ala Leu His Lys Ile Met Ala Leu Phe Ser Ala
1      5      10      15

aac agc ata ggt gct atg aac aac tct gac act cgc ata gca ggc tgc      96
Asn Ser Ile Gly Ala Met Asn Asn Ser Asp Thr Arg Ile Ala Gly Cys
20     25     30

ttc ctg act ggc atc oot ggg ctg gag caa cta cat atc tgg ctg tcc      144
Phe Leu Thr Gly Ile Pro Gly Leu Glu Gln Leu His Ile Trp Leu Ser
35     40     45

atc ccc ttc tgc atc atg tac atc gct gcc ctg gaa ggc aat ggc atc      192
Ile Pro Phe Cys Ile Met Tyr Ile Ala Ala Leu Glu Gly Asn Gly Ile
50     55     60

cta att tgt gtc atc ctg tcc cag gca atc ctg cat gag ccc atg tac      240
Leu Ile Cys Val Ile Leu Ser Gln Ala Ile Leu His Glu Pro Met Tyr
65     70     75     80

ata ttc tta tct atg ctg gcc agt gct gat gtc ttg ctg tct acc acc      288
Ile Phe Leu Ser Met Leu Ala Ser Ala Asp Val Leu Leu Ser Thr Thr
85     90     95

acc atg cct aag gcc ctg gcc aat ttg tgg cta ggt tat agc cac att      336
Thr Met Pro Lys Ala Leu Ala Asn Leu Trp Leu Gly Tyr Ser His Ile
100    105    110

tcc ttt gat ggc tgc ctg act caa aag ttc ttc att cac ttc ctg ttc      384
Ser Phe Asp Gly Cys Leu Thr Gln Lys Phe Phe Ile His Phe Leu Phe
115    120    125

att cac tct gct gtc ctg ctg gcc atg gcc ttt gac cgc tat gtg gcc      432
Ile His Ser Ala Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
130    135    140

atc tgc tcc ccc ctg cga tat gtc aca atc ctg aca agc aag gtc att      480
Ile Cys Ser Pro Leu Arg Tyr Val Thr Ile Leu Thr Ser Lys Val Ile
145    150    155    160

ggg aag atc gtc act gcc acc ctg agc cgc agc ttc atc att atg ttt      528
Gly Lys Ile Val Thr Ala Thr Leu Ser Arg Ser Phe Ile Ile Met Phe
165    170    175

cca tcc atc ttt ctg ctt gag cac ctg cac tat tgc cag atc aac atc      576
Pro Ser Ile Phe Leu Leu Glu His Leu His Tyr Cys Gln Ile Asn Ile
180    185    190

att gca cac aca ttt tgt gag cac atg ggc att gcc cat ctg tcc tgt      624
Ile Ala His Thr Phe Cys Glu His Met Gly Ile Ala His Leu Ser Cys
195    200    205

tct gat atc tcc atc aat gtc tgg tat ggg ttg gca gct gct ctt ctg      672
Ser Asp Ile Ser Ile Asn Val Trp Tyr Gly Leu Ala Ala Ala Leu Leu
210    215    220

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tcc aca ggc ctg gac atc atg ctt att act gtt tcc tac atc cac atc      720
Ser Thr Gly Leu Asp Ile Met Leu Ile Thr Val Ser Tyr Ile His Ile
225                230                235                240

ctc caa gaa gtc ttc ogc ctc ctt tot oaa gat ggc ogc tcc aag gcc      768
Leu Gln Ala Val Phe Arg Leu Leu Ser Gln Asp Ala Arg Ser Lys Ala
245                250                255

ctg agt acc tgt gga tcc cat atc tgt gtc atc cta ctc ttc tat gtc      816
Leu Ser Thr Cys Gly Ser His Ile Cys Val Ile Leu Leu Phe Tyr Val
260                265                270

cct gcc ctt ttt tct gtc ttt gcc tac agg ttt ggt ggg aga agc atc      864
Pro Ala Leu Phe Ser Val Phe Ala Tyr Arg Phe Gly Gly Arg Ser Ile
275                280                285

cca tgc tat gtc cat att ctc ctg gcc agc ctc tac gtt gtc att cct      912
Pro Cys Tyr Val His Ile Leu Leu Ala Ser Leu Tyr Val Val Ile Pro
290                295                300

cct atg ctc aat ccc gtt att tat gga gtg agg act aag cca ata ctg      960
Pro Met Leu Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Pro Ile Leu
305                310                315                320

gaa ggg gct aag cag atg ttt tca aat ctt gcc aaa gga tct aaa taa      1008
Glu Gly Ala Lys Gln Met Phe Ser Asn Leu Ala Lys Gly Ser Lys
325                330                335

<210> 408
<211> 335
<212> PRT
<213> Homo Sapiens

<400> 408

Met Ala Gln Val Arg Ala Leu His Lys Ile Met Ala Leu Phe Ser Ala
1                5                10                15

Asn Ser Ile Gly Ala Met Asn Asn Ser Asp Thr Arg Ile Ala Gly Cys
20                25                30

Phe Leu Thr Gly Ile Pro Gly Leu Glu Gln Leu His Ile Trp Leu Ser
35                40                45

Ile Pro Phe Cys Ile Met Tyr Ile Ala Ala Leu Glu Gly Asn Gly Ile
50                55                60

Leu Ile Cys Val Ile Leu Ser Gln Ala Ile Leu His Glu Pro Met Tyr
65                70                75                80

Ile Phe Leu Ser Met Leu Ala Ser Ala Asp Val Leu Leu Ser Thr Thr
85                90                95

Thr Met Pro Lys Ala Leu Ala Asn Leu Trp Leu Gly Tyr Ser His Ile

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WO 02/24726

PCT/BE01/00162

100 105 110
 Ser Phe Asp Gly Cys Leu Thr Gln Lys Phe Phe Ile His Phe Leu Phe
 115 120 125
 Ile His Ser Ala Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
 130 135 140
 Ile Cys Ser Pro Leu Arg Tyr Val Thr Ile Leu Thr Ser Lys Val Ile
 145 150 155 160
 Gly Lys Ile Val Thr Ala Thr Leu Ser Arg Ser Phe Ile Ile Met Phe
 165 170 175
 Pro Ser Ile Phe Leu Leu Glu His Leu His Tyr Cys Gln Ile Asn Ile
 180 185 190
 Ile Ala His Thr Phe Cys Glu His Met Gly Ile Ala His Leu Ser Cys
 195 200 205
 Ser Asp Ile Ser Ile Asn Val Trp Tyr Gly Leu Ala Ala Ala Leu Leu
 210 215 220
 Ser Thr Gly Leu Asp Ile Met Leu Ile Thr Val Ser Tyr Ile His Ile
 225 230 235 240
 Leu Glu Ala Val Phe Arg Leu Leu Ser Gln Asp Ala Arg Ser Lys Ala
 245 250 255
 Leu Ser Thr Cys Gly Ser His Ile Cys Val Ile Leu Leu Phe Tyr Val
 260 265 270
 Pro Ala Leu Phe Ser Val Phe Ala Tyr Arg Phe Gly Gly Arg Ser Ile
 275 280 285
 Pro Cys Tyr Val His Ile Leu Leu Ala Ser Leu Tyr Val Val Ile Pro
 290 295 300
 Pro Met Leu Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Pro Ile Leu
 305 310 315 320
 Glu Gly Ala Lys Gln Met Phe Ser Asn Leu Ala Lys Gly Ser Lys
 325 330 335
 <210> 409
 <211> 957

WO 02/24726

PCT/BE01/00162

<212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(954)
 <223>

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<400> 409
atg tca gat tcc aac ctc agt gat aac oat ctt cca gac acc ttc ttc      48
Met Ser Asp Ser Asn Leu Ser Asp Asn His Leu Pro Asp Thr Phe Phe
1      5      10      15

tta aca ggg atc cca ggg ctg gag gct gcc cac ttc tgg att gcc atc      96
Leu Thr Gly Ile Pro Gly Leu Glu Ala Ala His Phe Trp Ile Ala Ile
20     25     30

cct ttc tgt gcc atg tat ctt gta gca ctg gtt gga aat gct gcc ctc     144
Pro Phe Cys Ala Met Tyr Leu Val Ala Leu Val Gly Asn Ala Ala Leu
35     40     45

atc ctg gtc att gcc atg gac aat gct ctt cat gca cct atg tac ctc     192
Ile Leu Val Ile Ala Met Asp Asn Ala Leu His Ala Pro Met Tyr Leu
50     55     60

ttc ctc tgc ctt ctc tca ctc aca gac ctg gct ctc agt tot acc act     240
Phe Leu Cys Leu Leu Ser Leu Thr Asp Leu Ala Leu Ser Ser Thr Thr
65     70     75     80

gtg ccc aag atg ctg gcc att ttg tgg ctc cat gct ggt gag att tcc     288
Val Pro Lys Met Leu Ala Ile Leu Trp Leu His Ala Gly Glu Ile Ser
85     90     95

ttt ggt gga tgc ctg gcc cag atg ttt tgt gtc cat tot atc tat gct     336
Phe Gly Gly Cys Leu Ala Gln Met Phe Cys Val His Ser Ile Tyr Ala
100    105    110

ctg gag tcc tgg att cta ctt gcc atg gcc ttt gat agg tat gtg gct     384
Leu Glu Ser Ser Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
115    120    125

atc tgt aac cca tta agg tat aca acc att ctc aac cat gct gtc ata     432
Ile Cys Asn Pro Leu Arg Tyr Thr Thr Ile Leu Asn His Ala Val Ile
130    135    140

ggc aga att gcc ttt gtt ggg cta ttc cgt agt gtg gct att gtc tcc     480
Gly Arg Ile Gly Phe Val Gly Leu Phe Arg Ser Val Ala Ile Val Ser
145    150    155    160

ccc ttc atc ttc ttg ctg agg cga ctc ccc tac tgt ggt cac cgt gtc     528
Pro Phe Ile Phe Leu Leu Arg Arg Leu Pro Tyr Cys Gly His Arg Val
165    170    175

atg aca cac aca tac tgt gag cat atg gcc atc gcc cga ctg gcc tgt     576
Met Thr His Thr Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys
180    185    190

gcc aac atc act gtc aat att gtc tat ggg cta act gtg gct ctg ctg     624
Ala Asn Ile Thr Val Asn Ile Val Tyr Gly Leu Thr Val Ala Leu Leu
195    200    205

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WO 02/24726

PCT/BE01/00162

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gcc atg gga ctg gat tcc att ctc att gcc att tcc tat ggc ttt atc      672
Ala Met Gly Leu Asp Ser Ile Leu Ile Ala Ile Ser Tyr Gly Phe Ile
210                215                220

ctc cat gca gtc ttt cac ctt cca tct cat gat gcc cag cac aaa gct      720
Leu His Ala Val Phe His Leu Pro Ser His Asp Ala Gln His Lys Ala
225                230                235                240

ctg agt acc tgt ggc tcc cac att gcc atc atc ctg gtt ttc tac atc      768
Leu Ser Thr Cys Gly Ser His Ile Gly Ile Ile Leu Val Phe Tyr Ile
245                250                255

cat gcc ttc ttc tcc ttc ctc acc oac cgc ttt ggt cac cac gaa gtc      816
Pro Ala Phe Phe Ser Phe Leu Thr His Arg Phe Gly His His Glu Val
260                265                270

ccc aag cat gtg cac atc ttt ctg gct aat ctc tat gtg ctg gtg cct      864
Pro Lys His Val His Ile Phe Leu Ala Asn Leu Tyr Val Leu Val Pro
275                280                285

cct gta ctc aat cct att ctc tat gga gct aga acc aag gag att cgg      912
Pro Val Leu Asn Pro Ile Leu Tyr Gly Ala Arg Thr Lys Glu Ile Arg
290                295                300

agt cga ctt cta aaa ctg ctt cac ctg ggg aag act tca ata tga      957
Ser Arg Leu Leu Lys Leu Leu His Leu Gly Lys Thr Ser Ile
305                310                315

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<210> 410
 <211> 318
 <212> PPT
 <213> Homo Sapiens

<400> 410

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Met Ser Asp Ser Asn Leu Ser Asp Asn His Leu Pro Asp Thr Phe Phe
1          5          10          15

Leu Thr Gly Ile Pro Gly Leu Glu Ala Ala His Phe Trp Ile Ala Ile
20          25          30

Pro Phe Cys Ala Met Tyr Leu Val Ala Leu Val Gly Asn Ala Ala Leu
35          40          45

Ile Leu Val Ile Ala Met Asp Asn Ala Leu His Ala Pro Met Tyr Leu
50          55          60

Phe Leu Cys Leu Leu Ser Leu Thr Asp Leu Ala Leu Ser Ser Thr Thr
65          70          75          80

Val Pro Lys Met Leu Ala Ile Leu Trp Leu His Ala Gly Glu Ile Ser
85          90          95

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WO 02/24726

PCT/BE01/00162

Phe Gly Gly Cys Leu Ala Gln Met Phe Cys Val His Ser Ile Tyr Ala
 100 105 110
 Leu Glu Ser Ser Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys Asn Pro Leu Arg Tyr Thr Thr Ile Leu Asn His Ala Val Ile
 130 135 140
 Gly Arg Ile Gly Phe Val Gly Leu Phe Arg Ser Val Ala Ile Val Ser
 145 150 155 160
 Pro Phe Ile Phe Leu Leu Arg Arg Leu Pro Tyr Cys Gly His Arg Val
 165 170 175
 Met Thr His Thr Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys
 180 185 190
 Ala Asn Ile Thr Val Asn Ile Val Tyr Gly Leu Thr Val Ala Leu Leu
 195 200 205
 Ala Met Gly Leu Asp Ser Ile Leu Ile Ala Ile Ser Tyr Gly Phe Ile
 210 215 220
 Leu His Ala Val Phe His Leu Pro Ser His Asp Ala Gln His Lys Ala
 225 230 235 240
 Leu Ser Thr Cys Gly Ser His Ile Gly Ile Ile Leu Val Phe Tyr Ile
 245 250 255
 Pro Ala Phe Phe Ser Phe Leu Thr His Arg Phe Gly His His Glu Val
 260 265 270
 Pro Lys His Val His Ile Phe Leu Ala Asn Leu Tyr Val Leu Val Pro
 275 280 285
 Pro Val Leu Asn Pro Ile Leu Tyr Gly Ala Arg Thr Lys Glu Ile Arg
 290 295 300
 Ser Arg Leu Leu Lys Leu Leu His Leu Gly Lys Thr Ser Ile
 305 310 315

<310> 411
 <311> 945
 <312> DNR
 <313> Homo Sapiens

WO 02/24726

PCT/BE01/00162

<220>
 <221> CDS
 <222> (1) .. (945)
 <223>

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<400> 411
atg atc att ttc aac ctg agc agt tac aat cca gga ccc ttc att ctg      48
Met Ile Ile Phe Asn Leu Ser Ser Tyr Asn Pro Gly Pro Phe Ile Leu
1      5      10      15

gta ggg atc cca ggc ctg gag caa ttc cat gtg tgg att gga att ccc      96
Val Gly Ile Pro Gly Leu Glu Gln Phe His Val Trp Ile Gly Ile Pro
20     25     30

ttc tgt atc atc tac att gta gct gtt gtg gga aac tgc atc ctt ctc      144
Phe Cys Ile Ile Tyr Ile Val Ala Val Val Gly Asn Cys Ile Leu Leu
35     40     45

tac ctc att gtg gtg gag cat agt ctt cat gaa ccc atg ttc ttc ttt      192
Tyr Leu Ile Val Val Glu His Ser Leu His Glu Pro Met Phe Phe Phe
50     55     60

ctc tcc atg ctg gcc atg act gac ctc atc ttg tcc aca gct ggt gtg      240
Leu Ser Met Leu Ala Met Thr Asp Leu Ile Leu Ser Thr Ala Gly Val
65     70     75     80

cct aag gca ctc agt atc ttt tgg cta ggg gct cgc gaa atc aca ttc      288
Pro Lys Ala Leu Ser Ile Phe Trp Leu Gly Ala Arg Glu Ile Thr Phe
85     90     95

cca gga tgc ctt aca caa atg ttc ttc ctc tat aac ttt gtc ctg      336
Pro Gly Cys Leu Thr Gln Met Phe Phe Leu His Tyr Asn Phe Val Leu
100    105    110

gat tca gcc att ctg atg gcc atg gca ttt gat cac tat gta gct atc      384
Asp Ser Ala Ile Leu Met Ala Met Ala Phe Asp His Tyr Val Ala Ile
115    120    125

tgt tct ccc ttg aga tat acc acc atc ttg act ccc aag acc atc atc      432
Cys Ser Pro Leu Arg Tyr Thr Thr Ile Leu Thr Pro Lys Thr Ile Ile
130    135    140

aag agt gct atg ggc atc tcc ttt cga agc ttc tgc atc atc ctg cca      480
Lys Ser Ala Met Gly Ile Ser Phe Arg Ser Phe Cys Ile Ile Leu Pro
145    150    155    160

gat gta ttc ttg ctg aca tgc ctg cct ttc tgc agg aca cgc atc ata      528
Asp Val Phe Leu Leu Thr Cys Leu Pro Phe Cys Arg Thr Arg Ile Ile
165    170    175

ccc cac aca tac tgt gag cat ata ggt gtt gcc cag ctc gcc tgt gct      576
Pro His Thr Tyr Cys Glu His Ile Gly Val Ala Gln Leu Ala Cys Ala
180    185    190

gat atc tcc atc aac ttc tgg tat ggc ttt tgt gtt ccc atc atg aag      624
Asp Ile Ser Ile Asn Phe Trp Tyr Gly Phe Cys Val Pro Ile Met Thr
195    200    205

gtc atc tca gat gtg att ctc att gct gtt tcc tac gca cac atc ctc      672
Val Ile Ser Asp Val Ile Leu Ile Ala Val Ser Tyr Ala His Ile Leu

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WO 02/24726

PCT/BE01/00162

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210          215          220
tgt gct gtc ttt ggc ctt ccc tcc caa gat gcc tgc cag aaa gcc ctc      720
Cys Ala Val Phe Gly Leu Pro Ser Gln Asp Ala Cys Gln Lys Ala Leu
225          230          235          240

ggc act tgt ggt tct cat gtc tgt gtc atc ctc atg ttt tat aca cct      768
Gly Thr Cys Gly Ser His Val Cys Val Ile Leu Met Phe Tyr Thr Pro
245          250          255

gcc ttt ttc tcc atc ctc gcc cat cgc ttt gga cac aat gtc tct cgc      816
Ala Phe Phe Ser Ile Leu Ala His Arg Phe Gly His Asn Val Ser Arg
260          265          270

acc ttc cac atc atg ttt gcc aat ctc tac att gtt atc cca cct gca      864
Thr Phe His Ile Met Phe Ala Asn Leu Tyr Ile Val Ile Pro Pro Ala
275          280          285

ctc aac ccc atg gtt tac gga gtg aag acc aag cag atc aga gat aag      912
Leu Asn Pro Met Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp Lys
290          295          300

gtt ata ctt ttg ttt tok aag ggt aca gga tga      945
Val Ile Leu Leu Phe Ser Lys Gly Thr Gly
305          310

<210> 412
<211> 314
<212> PRT
<213> Homo Sapiens

<400> 412
Met Ile Ile Phe Asn Leu Ser Ser Tyr Asn Pro Gly Pro Phe Ile Leu
1          5          10          15

Val Gly Ile Pro Gly Leu Glu Gln Phe His Val Trp Ile Gly Ile Pro
20          25          30

Phe Cys Ile Ile Tyr Ile Val Ala Val Val Gly Asn Cys Ile Leu Leu
35          40          45

Tyr Leu Ile Val Val Glu His Ser Leu His Glu Pro Met Phe Phe Phe
50          55          60

Leu Ser Met Leu Ala Met Thr Asp Leu Ile Leu Ser Thr Ala Gly Val
65          70          75          80

Pro Lys Ala Leu Ser Ile Phe Trp Leu Gly Ala Arg Glu Ile Thr Phe
85          90          95

Pro Gly Cys Leu Thr Gln Met Phe Phe Leu His Tyr Asn Phe Val Leu
100         105         110

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WO 02/24726

PCT/BE01/00162

Asp Ser Ala Ile Leu Met Ala Met Ala Phe Asp His Tyr Val Ala Ile
 115 120 125
 Cys Ser Pro Leu Arg Tyr Thr Thr Ile Leu Thr Pro Lys Thr Ile Ile
 130 135 140
 Lys Ser Ala Met Gly Ile Ser Phe Arg Ser Phe Cys Ile Ile Leu Pro
 145 150 155 160
 Asp Val Phe Leu Leu Thr Cys Leu Pro Phe Cys Arg Thr Arg Ile Ile
 165 170 175
 Pro His Thr Tyr Cys Glu His Ile Gly Val Ala Gln Leu Ala Cys Ala
 180 185 190
 Asp Ile Ser Ile Asn Phe Trp Tyr Gly Phe Cys Val Pro Ile Met Thr
 195 200 205
 Val Ile Ser Asp Val Ile Leu Ile Ala Val Ser Tyr Ala His Ile Leu
 210 215 220
 Cys Ala Val Phe Gly Leu Pro Ser Gln Asp Ala Cys Gln Lys Ala Leu
 225 230 235 240
 Gly Thr Cys Gly Ser His Val Cys Val Ile Leu Met Phe Tyr Thr Pro
 245 250 255
 Ala Phe Phe Ser Ile Leu Ala His Arg Phe Gly His Asn Val Ser Arg
 260 265 270
 Thr Phe His Ile Met Phe Ala Asn Leu Tyr Ile Val Ile Pro Pro Ala
 275 280 285
 Leu Asn Pro Met Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp Lys
 290 295 300
 Val Ile Leu Leu Phe Ser Lys Gly Thr Gly
 305 310

<210> 413
 <211> 939
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> {1}..{936}

WO 02/24726

PCT/BE01/00162

<223>

<400> 413

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atg ggg ttg ttc aat gtc act cac cct gca ttc ttc ctc ctg act ggt      48
Met Gly Leu Phe Asn Val Thr His Pro Ala Phe Phe Leu Leu Thr Gly
1      5      10      15

atc cct ggt ctg gag agc tct cac tcc tgg ctg tca ggg ccc ctc tgc      96
Ile Pro Gly Leu Glu Ser Ser His Ser Trp Leu Ser Gly Pro Leu Cys
20     25     30

gtg atg tat gct gtg gcc ctt ggg gga aat aca gtg atc ctg cag gct      144
Val Met Tyr Ala Val Ala Leu Gly Gly Asn Thr Val Ile Leu Gln Ala
35     40     45

gtg cga gtg gag ccc agc ctc cat gag ccc atg tac ttc ctg tcc      192
Val Arg Val Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ser
50     55     60

atg ttg tcc ttc agt gat gtg gcc ata tcc atg gcc aca ctg ccc act      240
Met Leu Ser Phe Ser Asp Val Ala Ile Ser Met Ala Thr Leu Pro Thr
65     70     75     80

gta ctc cga acc ttc tgc ctc aat gcc cgc aac atc act ttt gat gcc      288
Val Leu Arg Thr Phe Cys Leu Asn Ala Arg Asn Ile Thr Phe Asp Ala
85     90     95

tgt cta att cag atg ttt ctt att cac ttc ttc tcc atg atg gaa tca      336
Cys Leu Ile Gln Met Phe Leu Ile His Phe Phe Ser Met Met Glu Ser
100    105    110    115

ggt att ctg ctg gcc atg agt ttt gac cgc tat gtg gcc att tgt gac      384
Gly Ile Leu Leu Ala Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Asp
115    120    125

ccc ttg cgc tat gca act gtg ctc acc act gaa gtc att gct gca atg      432
Pro Leu Arg Tyr Ala Thr Val Leu Thr Thr Glu Val Ile Ala Ala Met
130    135    140

ggt tta ggt gca gct gct cga agc ttc atc acc ctt ttc cct ctt ccc      480
Gly Leu Gly Ala Ala Ala Arg Ser Phe Ile Thr Leu Phe Pro Leu Pro
145    150    155    160

ttt ctt att aag agg ctg cct atc tgc aga tcc aat gtt ctt tct cac      528
Phe Leu Ile Lys Arg Leu Pro Ile Cys Arg Ser Asn Val Leu Ser His
165    170    175

tcc tac tgc ctg cac cca gac atg atg agg ctt gcc tgt gct gat atc      576
Ser Tyr Cys Leu His Pro Asp Met Met Arg Leu Ala Cys Ala Asp Ile
180    185    190

agt atc aac agc atc tat gga ctc ttt gtt ctt gta tcc acc ttt ggc      624
Ser Ile Asn Ser Ile Tyr Gly Leu Phe Val Leu Val Ser Thr Phe Gly
195    200    205

atg gac ctg ttt ttt atc ttc ctc tcc tat gtg ctc att ctg cgt tct      672
Met Asp Leu Phe Phe Ile Phe Leu Ser Tyr Val Leu Ile Leu Arg Ser
210    215    220

gtc atg gcc act gct tcc cgt gag gaa cgc ctc aaa gct ctc aac aca      720

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WO 02/24726

PCT/BE01/00162

Val Met Ala Thr Ala Ser Arg Glu Glu Arg Leu Lys Ala Leu Asn Thr 225 230 235 240
 tgt gtg tca cat atc ctg gct gta ctt gca ttt tat gtg cca atg att 768
 Cys Val Ser His Ile Leu Ala Val Leu Ala Phe Tyr Val Pro Met Ile 245 250 255
 ggg gtc tcc aca gtg cac cgc ttt ggg aag cat gtc cca tgc tac ata 816
 Gly Val Ser Thr Val His Arg Phe Gly Lys His Val Pro Cys Tyr Ile 260 265 270
 cat gtc ctc atg tca aat gtg tac cta ttt gtg cct cct gtg ctc aac 864
 His Val Leu Met Ser Asn Val Tyr Leu Phe Val Pro Pro Val Leu Asn 275 280 285
 cct ctc att tat agc gcc aag aca aag gaa atc cgc cga gcc att ttc 912
 Pro Leu Ile Tyr Ser Ala Lys Thr Lys Glu Ile Arg Arg Ala Ile Phe 290 295 300
 cgc atg ttt cac cac atc aaa ata tga 939
 Arg Met Phe His His Lys Ile 305 310

 <210> 414
 <211> 313
 <212> PRT
 <213> Homo Sapiens

 <400> 414
 Met Gly Leu Phe Asn Val Thr His Pro Ala Phe Phe Leu Leu Thr Gly 1 5 10 15
 Ile Pro Gly Leu Glu Ser Ser His Ser Trp Leu Ser Gly Pro Leu Cys 20 25 30
 Val Met Tyr Ala Val Ala Leu Gly Gly Asn Thr Val Ile Leu Gln Ala 35 40 45
 Val Arg Val Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ser 50 55 60
 Met Leu Ser Phe Ser Asp Val Ala Ile Ser Met Ala Thr Leu Pro Thr 65 70 75 80
 Val Leu Arg Thr Phe Cys Leu Asn Ala Arg Asn Ile Thr Phe Asp Ala 85 90 95
 Cys Leu Ile Gln Met Phe Leu Ile His Phe Phe Ser Met Met Glu Ser 100 105 110
 Gly Ile Leu Leu Ala Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Asp 115 120 125

WO 02/24726

PCT/BE01/00162

Pro Leu Arg Tyr Ala Thr Val Leu Thr Thr Glu Val Ile Ala Ala Met
 130 135 140

Gly Leu Gly Ala Ala Arg Ser Phe Ile Thr Leu Phe Pro Leu Pro
 145 150 155 160

Phe Leu Ile Lys Arg Leu Pro Ile Cys Arg Ser Asn Val Leu Ser His
 165 170 175

Ser Tyr Cys Leu His Pro Asp Met Met Arg Leu Ala Cys Ala Asp Ile
 180 185 190

Ser Ile Asn Ser Ile Tyr Gly Leu Phe Val Leu Val Ser Thr Phe Gly
 195 200 205

Met Asp Leu Phe Phe Ile Phe Leu Ser Tyr Val Leu Ile Leu Arg Ser
 210 215 220

Val Met Ala Thr Ala Ser Arg Glu Glu Arg Leu Lys Ala Leu Asn Thr
 225 230 235 240

Cys Val Ser His Ile Leu Ala Val Leu Ala Phe Tyr Val Pro Met Ile
 245 250 255

Gly Val Ser Thr Val His Arg Phe Gly Lys His Val Pro Cys Tyr Ile
 260 265 270

His Val Leu Met Ser Asn Val Tyr Leu Phe Val Pro Pro Val Leu Asn
 275 280 285

Pro Leu Ile Tyr Ser Ala Lys Thr Lys Glu Ile Arg Arg Ala Ile Phe
 290 295 300

Arg Met Phe His His Ile Lys Ile
 305 310

<210> 415
 <211> 945
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(942)
 <223>

WO 02/24726

PCT/BE01/00162

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<400> 415
atg ctg ggt ctc aat ggc acc ccc ttc cag cca gca aca ctc cag ctg      48
Met Leu Gly Leu Asn Gly Thr Pro Phe Gln Pro Ala Thr Leu Gln Leu
1      5      10      15

aca ggc att cct ggg ata caa aca ggc ctc acc tgg gtt gcc ctg att      96
Thr Gly Ile Pro Gly Ile Gln Thr Gly Leu Thr Trp Val Ala Leu Ile
20     25     30

ttc tgc atc ctc tac atg atc tcc att gta ggt aac ctc agc att ctc      144
Phe Cys Ile Leu Tyr Met Ile Ser Ile Val Gly Asn Leu Ser Ile Leu
35     40     45

act ctg gtg ttt tgg gag cct gct ctg cat cag ccc atg tac tac ttc      192
Thr Leu Val Phe Trp Glu Pro Ala Leu His Gln Pro Met Tyr Tyr Phe
50     55     60

ctc tct atg ctc gct ctc aat gat ctg gga gtg tcc ttt tct aca ctt      240
Leu Ser Met Leu Ala Leu Asn Asp Leu Gly Val Ser Phe Ser Thr Leu
65     70     75     80

ccc act gtg att tct act ttc tgc ttc aac tac aac cat gtt ggc ttt      288
Pro Thr Val Ile Ser Thr Phe Cys Phe Asn Tyr Asn His Val Ala Phe
85     90     95

aat gct tgc ctg gtc cag atg ttc ttc atc cac act ttc tcc ttc atg      336
Asn Ala Cys Leu Val Gln Met Phe Phe Ile His Thr Phe Ser Phe Met
100    105    110

gag tca ggc ata ctg ctg gcc atg agc ttg gat cgc ttt gtg gct att      384
Glu Ser Gly Ile Leu Leu Ala Met Ser Leu Asp Arg Phe Val Ala Ile
115    120    125

tgt tat cca tta cgc tat gtc act gtg ctc act cac aac cgt ata ttg      432
Cys Tyr Pro Leu Arg Tyr Val Thr Val Leu Thr His Asn Arg Ile Leu
130    135    140

gct atg ggt ctg ggc atc ctt acc aag agt ttc acc act ctc ttc cct      480
Ala Met Gly Leu Gly Ile Leu Thr Lys Ser Phe Thr Thr Leu Phe Pro
145    150    155    160

ttc cct ttt gtg gtg aaa cga ctg ccc ttc tgc aaa ggc aat gtt ttg      528
Phe Pro Phe Val Val Lys Arg Leu Pro Phe Cys Lys Gly Asn Val Leu
165    170    175

cat cac tcc tac tgt ctc cat cca gat ctc atg aaa gta gca tgt gga      576
His His Ser Tyr Cys Leu His Pro Asp Leu Met Lys Val Ala Cys Gly
180    185    190

gac atc cat gtt aac aac att tat ggg ctc ttg gtg atc att ttt acc      624
Asp Ile His Val Asn Asn Ile Tyr Gly Leu Leu Val Ile Ile Phe Thr
195    200    205

tat ggt atg gac tca act ttc atc ctg ctt tcc tac gca ttg atc ctg      672
Tyr Gly Met Asp Ser Thr Phe Ile Leu Leu Ser Tyr Ala Leu Ile Leu
210    215    220

aga gcc atg ctg gtc atc ata tcc cag gaa cag cgg ctc aag gca ctc      720
Arg Ala Met Leu Val Ile Ile Ser Gln Glu Gln Arg Leu Lys Ala Leu
225    230    235    240

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PCT/BE01/00162

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aac acc tgc atg tca cac atc tgt gca gtg ctg gcc ttt tat gtg ccc      768
asn thr cys met ser his ile cys ala val leu ala phe tyr val pro
      245                      250                      255

ata att gct gtc tcc atg att cac cgc ttc tgg aaa agt gct cca cct      816
ile ile ala val ser met ile his arg phe trp lys ser ala pro pro
      260                      265                      270

gtt gtt cat gtc atg atg tcc aat gtc tac ctg ttt gta cca ccc atg      864
val val his val met met ser asn val tyr leu phe val pro pro met
      275                      280                      285

ctc aac cct atc atc tac agt gtg aaa acc aag gag atc cgc aaa ggg      912
leu asn pro ile ile tyr ser val lys thr lys glu ile arg lys gly
      290                      295                      300

att ctc aag ttc ttc cat aaa tcc cag gcc tga      945
ile leu lys phe phe his lys ser gln ala
      305                      310

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<210> 416
 <211> 314
 <212> PRT
 <213> Homo Sapiens

<400> 416

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met leu gly leu asn gly thr pro phe gln pro ala thr leu gln leu
1                      5                      10                      15

thr gly ile pro gly ile gln thr gly leu thr trp val ala leu ile
20                      25                      30

phe cys ile leu tyr met ile ser ile val gly asn leu ser ile leu
35                      40                      45

thr leu val phe trp glu pro ala leu his gln pro met tyr tyr phe
50                      55                      60

leu ser met leu ala leu asn asp leu gly val ser phe ser thr leu
65                      70                      75                      80

pro thr val ile ser thr phe cys phe asn tyr asn his val ala phe
85                      90                      95

asn ala cys leu val gln met phe phe ile his thr phe ser phe met
100                      105                      110

glu ser gly ile leu leu ala met ser leu asp arg phe val ala ile
115                      120                      125

cys tyr pro leu arg tyr val thr val leu thr his asn arg ile leu

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WO 02/24726

PCT/BE01/00162

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130          135          140
Ala Met Gly Leu Gly Ile Leu Thr Lys Ser Phe Thr Thr Leu Phe Pro
145          150          155          160
Phe Pro Phe Val Val Lys Arg Leu Pro Phe Cys Lys Gly Asn Val Leu
165          170          175
His His Ser Tyr Cys Leu His Pro Asp Leu Met Lys Val Ala Cys Gly
180          185          190
Asp Ile His Val Asn Asn Ile Tyr Gly Leu Leu Val Ile Ile Phe Thr
195          200          205
Tyr Gly Met Asp Ser Thr Phe Ile Leu Leu Ser Tyr Ala Leu Ile Leu
210          215          220
Arg Ala Met Leu Val Ile Ile Ser Gln Glu Gln Arg Leu Lys Ala Leu
225          230          235          240
Asn Thr Cys Met Ser His Ile Cys Ala Val Leu Ala Phe Tyr Val Pro
245          250          255
Ile Ile Ala Val Ser Met Ile His Arg Phe Trp Lys Ser Ala Pro Pro
260          265          270
Val Val His Val Met Met Ser Asn Val Tyr Leu Phe Val Pro Pro Met
275          280          285
Leu Asn Pro Ile Ile Tyr Ser Val Lys Thr Lys Glu Ile Arg Lys Gly
290          295          300
Ile Leu Lys Phe Phe His Lys Ser Gln Ala
305          310
<210> 417
<211> 981
<212> DNA
<213> Homo Sapiens
<220>
<221> CDS
<222> (1)..(978)
<223>
<400> 417
atg tca gtc caa tat tcc ctc agt cct caa ttc arg ctg cta tcc aac      48
Met Ser Val Gln Tyr Ser Leu Ser Pro Gln Phe Met Leu Leu Ser Asn

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PCT/BE01/00162

1	5	10	15	
att act cag ttt agc ccc ata ttc tat ctc acc agc ttt cct gga ttg				96
Ile Thr Gln Phe Ser Pro Ile Phe Tyr Leu Thr Ser Phe Pro Gly Leu	20	25	30	
gaa ggc atc aaa cac tgg att ttc atc ccc ttt ttc ttt atg tac atg				144
Glu Gly Ile Lys His Trp Ile Phe Ile Pro Phe Phe Phe Met Tyr Met	35	40	45	
gtt gcc atc tca ggc aat tgt ttc att ctg atc att att gag acc aac				192
Val Ala Ile Ser Gly Asn Cys Phe Ile Leu Ile Ile Ile Lys Thr Asn	50	55	60	
cct cgt ctg cac aca ccc atg tac tat cta cta tcc ttg ctg gcc ctc				240
Pro Arg Leu His Thr Pro Met Tyr Tyr Leu Leu Ser Leu Leu Ala Leu	65	70	75	
act gac ctg ggc ctg tgt gtg tcc acg ttg ccc acc act atg ggg atc				288
Thr Asp Leu Gly Leu Cys Val Ser Thr Leu Pro Thr Thr Met Gly Ile	85	90	95	
ttc tgg ttt aac tcc cag agt atc tac ttt gga gcg tgt caa atc cag				336
Phe Trp Phe Asn Ser Gln Ser Ile Tyr Phe Gly Ala Cys Gln Ile Gln	100	105	110	
atg ttc tgc atc cac tct ttt tcc ttc atg gag tcc tca gtg ctc ctc				384
Met Phe Cys Ile His Ser Phe Ser Phe Met Gln Ser Ser Val Leu Leu	115	120	125	
atg atg tcc ttt gac cgc ttt gtg gcc atc tgc cac cct ctg agg tat				432
Met Met Ser Phe Asp Arg Phe Val Ala Ile Cys His Pro Leu Arg Tyr	130	135	140	
tcg gtc att atc act ggc cag caa gtg gtc aga gca ggc cta att gtc				480
Ser Val Ile Ile Thr Gly Gln Gln Val Val Arg Ala Gly Leu Ile Val	145	150	155	
atc ttc cgg gga cct gtg gcc act atc cct att gtc ctc ctc ctg aag				528
Ile Phe Arg Gly Pro Val Ala Thr Ile Pro Ile Val Leu Leu Leu Lys	165	170	175	
gct ttt ccc tcc tgt gga tct gtg gtc ctc tcc cac tca ttt tgc ctg				576
Ala Phe Pro Tyr Cys Gly Ser Val Val Leu Ser His Ser Phe Cys Leu	180	185	190	
cac cag gaa gtg ata cag ctg gcc tgc aca gat acc acc ttc aat aat				624
His Gln Glu Val Ile Gln Leu Ala Cys Thr Asp Thr Thr Phe Asn Asn	195	200	205	
ctg tat gga ctg atg gtg gta gtt ttc act gtg atg ctg gac ctg gtg				672
Leu Tyr Gly Leu Met Val Val Val Phe Thr Val Met Leu Asp Leu Val	210	215	220	
ctc atc gca ctg tcc tat gga ctc atc ctg cac aca gta gca ggc ctg				720
Leu Ile Ala Leu Ser Tyr Gly Leu Ile Leu His Thr Val Ala Gly Leu	225	230	235	
gcc tcc caa gag gag cag cgc cgt gcc ttt cag aca tgc acc gct cat				768
Ala Ser Gln Glu Glu Gln Arg Arg Ala Phe Gln Thr Cys Thr Ala His	245	250	255	

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ctc tgt gct gtg cta gta ttc ttt gtg ccc atg atg ggg ctg tcc ctg      816
Leu Cys Ala Val Leu Val Phe Phe Val Pro Met Met Gly Leu Ser Leu
      260      265      270

gtg cac cgt ttt ggg aag cat gcc cca cct gct att cat ctt ctt atg      864
Val His Arg Phe Gly Lys His Ala Pro Pro Ala Ile His Leu Leu Met
      275      280      285

gcc aat gtc tac ctt ttt gtg cct ccc atg ctt aac cca atc ata tac      912
Ala Asn Val Tyr Leu Phe Val Pro Pro Met Leu Asn Pro Ile Ile Tyr
      290      295      300

aag att aag acc aag gag atc cac cgt gcc att atc aaa ctc cta ggt      960
Ser Ile Lys Thr Lys Glu Ile His Arg Ala Ile Ile Lys Leu Leu Gly
      305      310      315

ctt aaa aag gcc agt aaa tga      991
Leu Lys Lys Ala Ser Lys
      325

<210> 418
<211> 326
<212> PRT
<213> Homo Sapiens

<400> 418

Met Ser Val Gln Tyr Ser Leu Ser Pro Gln Phe Met Leu Leu Ser Asn
1      5      10      15

Ile Thr Gln Phe Ser Pro Ile Phe Tyr Leu Thr Ser Phe Pro Gly Leu
20      25      30

Glu Gly Ile Lys His Trp Ile Phe Ile Pro Phe Phe Phe Met Tyr Met
35      40      45

Val Ala Ile Ser Gly Asn Cys Phe Ile Leu Ile Ile Ile Lys Thr Asn
50      55      60

Pro Arg Leu His Thr Pro Met Tyr Tyr Leu Leu Ser Leu Leu Ala Leu
65      70      75      80

Thr Asp Leu Gly Leu Cys Val Ser Thr Leu Pro Thr Thr Met Gly Ile
85      90      95

Phe Trp Phe Asn Ser Gln Ser Ile Tyr Phe Gly Ala Cys Gln Ile Gln
100     105     110

Met Phe Cys Ile His Ser Phe Ser Phe Met Glu Ser Ser Val Leu Leu
115     120     125

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WO 02/24726

PCT/BE01/00162

Met Met Ser Phe Asp Arg Phe Val Ala Ile Cys His Pro Leu Arg Tyr
 130 135 140

Ser Val Ile Ile Thr Gly Gln Gln Val Val Arg Ala Gly Leu Ile Val
 145 150 155 160

Ile Phe Arg Gly Pro Val Ala Thr Ile Pro Ile Val Leu Leu Leu Lys
 165 170 175

Ala Phe Pro Tyr Cys Gly Ser Val Val Leu Ser His Ser Phe Cys Leu
 180 185 190

His Gln Glu Val Ile Gln Leu Ala Cys Thr Asp Thr Thr Phe Asn Asn
 195 200 205

Leu Tyr Gly Leu Met Val Val Val Phe Thr Val Met Leu Asp Leu Val
 210 215 220

Leu Ile Ala Leu Ser Tyr Gly Leu Ile Leu His Thr Val Ala Gly Leu
 225 230 235 240

Ala Ser Gln Glu Glu Gln Arg Arg Ala Phe Gln Thr Cys Thr Ala His
 245 250 255

Leu Cys Ala Val Leu Val Phe Phe Val Pro Met Met Gly Leu Ser Leu
 260 265 270

Val His Arg Phe Gly Lys His Ala Pro Pro Ala Ile His Leu Leu Met
 275 280 285

Ala Asn Val Tyr Leu Phe Val Pro Pro Met Leu Asn Pro Ile Ile Tyr
 290 295 300

Ser Ile Lys Thr Lys Glu Ile His Arg Ala Ile Ile Lys Leu Leu Gly
 305 310 315 320

Leu Lys Lys Ala Ser Lys
 325

<210> 419
 <211> 954
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(951)
 <223>

WO 02/24726

PCT/BE01/00162

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<400> 419
atg tcc cag gtg act aac acc aca caa gaa ggc atc tac ttc atc ctc      48
Met Ser Gln Val Thr Asn Thr Thr Gln Glu Gly Ile Tyr Phe Ile Leu
1      5      10      15

aac gac atc cct gga ttt gag gcc tcc cac atc tgg atc tcc atc ccc      96
Thr Asp Ile Pro Gly Phe Glu Ala Ser His Ile Trp Ile Ser Ile Pro
20     25     30

gbc tgc tgt ctc tac acc atc tcc atc atg gcc aat acc acc atc ctc     144
Val Cys Cys Leu Tyr Thr Ile Ser Ile Met Gly Asn Thr Thr Ile Leu
35     40     45

act gtc att cgc aca gag cca tct gtc cac cag cgc atg tat ctg ttt     192
Thr Val Ile Arg Thr Glu Pro Ser Val His Gln Arg Met Tyr Leu Phe
50     55     60

ctc tcc atg ctg gcc ctg acg gac ctg ggt ctc acc ctc acc acc cta     240
Leu Ser Met Leu Ala Leu Thr Asp Leu Gly Leu Thr Leu Thr Thr Leu
65     70     75     80

ccc aca gtc atg cag ctt ctc tgg ttc aac gtt cgt aga atc agc tct     288
Pro Thr Val Met Gln Leu Leu Trp Phe Asn Val Arg Arg Ile Ser Ser
85     90     95

gag gcc tgt ttt gct cag ttt ttc ttc ctt cat gga ttc tcc ttt atg     336
Glu Ala Cys Phe Ala Gln Phe Phe Leu His Gly Phe Ser Phe Met
100    105    110

gag tct tct gtc ctc ctg gct atg tcc gtt gac tgc tat gtg gcc atc     384
Glu Ser Ser Val Leu Leu Ala Met Ser Val Asp Cys Tyr Val Ala Ile
115    120    125

tgc tgt ccc ctc cat tat gcc tcc atc ctc acc aat gaa gtc att ggt     432
Cys Cys Pro Leu His Tyr Ala Ser Ile Leu Thr Asn Glu Val Ile Gly
130    135    140

aga act ggg tta gcc atc att tgc tgc tgt gtt ctg gcg gtt ctt ccc     480
Arg Thr Gly Leu Ala Ile Ile Cys Cys Cys Val Leu Ala Val Leu Pro
145    150    155    160

tcc ctt ttc tta ctc aag cga ctg cct ttc tgc cac tcc cac ctt ctc     528
Ser Leu Phe Leu Leu Lys Arg Leu Pro Phe Cys His Ser His Leu Leu
165    170    175

tct cgc tcc tat tgc ctc cac cag gat atg atc cgc ctg gtc tgt gct     576
Ser Arg Ser Tyr Cys Leu His Gln Asp Met Ile Arg Leu Val Cys Ala
180    185    190

gac atc agg ctc aac agc tgg tat gga ttt gct ctt gcc ttg ctc att     624
Asp Ile Arg Leu Asn Ser Trp Tyr Gly Phe Ala Leu Ala Leu Leu Ile
195    200    205

att atc gtg gat cct ctg ctc att gtg atc tcc tat aca ctt att ctg     672
Ile Ile Val Asp Pro Leu Leu Ile Val Ile Ser Tyr Thr Leu Ile Leu
210    215    220

aaa aat atc ttg ggc aca gcc acc tgg gct gag cga ctc cgt gcc ctc     720
Lys Asn Ile Leu Gly Thr Ala Thr Trp Ala Glu Arg Leu Arg Ala Leu

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WO 02/24726

PCT/BE01/00162

225 230 235 240
 aat aac tgc ctg tcc cac att cta gct gtc ctg gtc ctc tac att ccc 768
 Asn Asn Cys Leu Ser His Ile Leu Ala Val Leu Val Leu Tyr Ile Pro
 245 250 255
 atg gtt ggt gta tct atg act cat cgc ttt gcc aag cat gcc tct cca 816
 Met Val Gly Val Ser Met Thr His Arg Phe Ala Lys His Ala Ser Pro
 260 265 270
 ctg gtc cat gtt atc atg gcc aat atc tac ctg ctg gca ccc ccg gtc 864
 Leu Val His Val Ile Met Ala Asn Ile Tyr Leu Leu Ala Pro Pro Val
 275 280 285
 atg aac ccc atc att tac agt gta aag aac aag cag atc caa tgg gga 912
 Met Asn Pro Ile Ile Tyr Ser Val Lys Asn Lys Gln Ile Gln Trp Gly
 290 295 300
 atg tta aat ttc ctt tcc ctc aaa aat atg cat tca aga tga 954
 Met Leu Asn Phe Leu Ser Leu Lys Asn Met His Ser Arg
 305 310 315

 <210> 420
 <211> 317
 <212> PRT
 <213> Homo Sapiens

 <400> 420
 Met Ser Gln Val Thr Asn Thr Thr Gln Glu Gly Ile Tyr Phe Ile Leu
 1 5 10 15

 Thr Asp Ile Pro Gly Phe Glu Ala Ser His Ile Trp Ile Ser Ile Pro
 20 25 30

 Val Cys Cys Leu Tyr Thr Ile Ser Ile Met Gly Asn Thr Thr Ile Leu
 35 40 45

 Thr Val Ile Arg Thr Glu Pro Ser Val His Gln Arg Met Tyr Leu Phe
 50 55 60

 Leu Ser Met Leu Ala Leu Thr Asp Leu Gly Leu Thr Leu Thr Thr Leu
 65 70 75 80

 Pro Thr Val Met Gln Leu Leu Trp Phe Asn Val Arg Arg Ile Ser Ser
 85 90 95

 Glu Ala Cys Phe Ala Gln Phe Phe Phe Leu His Gly Phe Ser Phe Met
 100 105 110

 Glu Ser Ser Val Leu Leu Ala Met Ser Val Asp Cys Tyr Val Ala Ile
 115 120 125

WO 02/24726

PCT/BE01/00162

Cys Cys Pro Leu His Tyr Ala Ser Ile Leu Thr Asn Glu Val Ile Gly
 130 135 140

Arg Thr Gly Leu Ala Ile Ile Cys Cys Cys Val Leu Ala Val Leu Pro
 145 150 155 160

Ser Leu Phe Leu Leu Lys Arg Leu Pro Phe Cys His Ser His Leu Leu
 165 170 175

Ser Arg Ser Tyr Cys Leu His Gln Asp Met Ile Arg Leu Val Cys Ala
 180 185 190

Asp Ile Arg Leu Asn Ser Trp Tyr Gly Phe Ala Leu Ala Leu Leu Ile
 195 200 205

Ile Ile Val Asp Pro Leu Leu Ile Val Ile Ser Tyr Thr Leu Ile Leu
 210 215 220

Lys Asn Ile Leu Gly Thr Ala Thr Trp Ala Glu Arg Leu Arg Ala Leu
 225 230 235 240

Asn Asn Cys Leu Ser His Ile Leu Ala Val Leu Val Leu Tyr Ile Pro
 245 250 255

Met Val Gly Val Ser Met Thr His Arg Phe Ala Lys His Ala Ser Pro
 260 265 270

Leu Val His Val Ile Met Ala Asn Ile Tyr Leu Leu Ala Pro Pro Val
 275 280 285

Met Asn Pro Ile Ile Tyr Ser Val Lys Asn Lys Gln Ile Gln Trp Gly
 290 295 300

Met Leu Asn Phe Leu Ser Leu Lys Asn Met His Ser Arg
 305 310 315

<210> 421
 <211> 966
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(963)
 <223>

<400> 421

WO 02/24726

PCT/BE01/00162

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atg cta aca ctg aat aaa aca gac cta ata cca gct tca ttt att ctg      48
Met Leu Thr Leu Asn Lys Thr Asp Leu Ile Pro Ala Ser Phe Ile Leu
1      5      10      15

aat gga gtc cca gga ctg gaa gac aca caa ctc tgg att tcc ttc cca      96
Asn Gly Val Pro Gly Leu Glu Asp Thr Gln Leu Trp Ile Ser Phe Pro
20     25     30

ttc tgc tct atg tat gtt gtg gct atg gta ggg aat tgt gga ctc ctc      144
Phe Cys Ser Met Tyr Val Val Ala Met Val Gly Asn Cys Gly Leu Leu
35     40     45

tac ctc att cac tat gag gat gcc ctg cgc aaa ccc atg tac tac ttc      192
Tyr Leu Ile His Tyr Glu Asp Ala Leu His Lys Pro Met Tyr Tyr Phe
50     55     60

ttg gcc atg ctt tcc ttt act gac ctt gtt atg tgc tct agt aca atc      240
Leu Ala Met Leu Ser Phe Thr Asp Leu Val Met Cys Ser Ser Thr Ile
65     70     75     80

cct aaa gcc ctc tgc atc ttc tgg ttt cat ctc aag gac att gga ttt      288
Pro Lys Ala Leu Cys Ile Phe Trp Phe His Leu Lys Asp Ile Gly Phe
85     90     95

gat gaa tgc ctt gtc cag atg ttc ttc atc cac ace ttc aca ggg atg      336
Asp Glu Cys Leu Val Gln Met Phe Phe Ile His Thr Phe Thr Gly Met
100    105    110

gag tct ggg gtg ctt atg ctt atg gcc ctg gat cgc tat gtg gcc atc      384
Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
115    120    125

tgc tac ccc tta cgc tat tca act atc ctc acc aat cct gta att gca      432
Cys Tyr Pro Leu Arg Tyr Ser Thr Ile Leu Thr Asn Pro Val Ile Ala
130    135    140

aag gtt ggg act gcc acc ttc ctg aga ggg gta tta ctc att att ccc      480
Lys Val Gly Thr Ala Thr Phe Leu Arg Gly Val Leu Leu Ile Ile Pro
145    150    155    160

ttt act ttc ctc acc aag cgc ctg ccc tac tgc aga ggc aat ata ctt      528
Phe Thr Phe Leu Thr Lys Arg Leu Pro Tyr Cys Arg Gly Asn Ile Leu
165    170    175

ccc cat acc tac tgt gac cac atg tct gta gcc aaa ttg tcc tgt ggt      576
Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Leu Ser Cys Gly
180    185    190

aat gtc aag gtc aat gcc atc tat ggt ctg atg gtt gcc ctc ctg att      624
Asn Val Lys Val Asn Ala Ile Tyr Gly Leu Met Val Ala Leu Leu Ile
195    200    205

ggg ggc ttt gac ata ctg tgt atc aac atc tcc tat acc atg att ctc      672
Gly Gly Phe Asp Ile Leu Cys Ile Thr Ile Ser Tyr Thr Met Ile Leu
210    215    220

cgg gca gtg gtc agc ctc tcc tca gca gat gct cgg cag aag gcc ttt      720
Arg Ala Val Val Ser Leu Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe
225    230    235    240

aat acc tgc act gcc cgc att tgt gcc att gtt ttc tcc tat act cca      768

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WO 02/24726

PCT/BE01/00162

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Asn Thr Cys Thr Ala His Ile Cys Ala Ile Val Phe Ser Tyr Thr Pro
245                250                255

ggt ttc ttc tcc ttc ttt tcc cac cgc ttt ggg gaa cac ata atc ccc      816
Ala Phe Phe Ser Phe Phe Ser His Arg Phe Gly Glu His Ile Ile Pro
260                265                270

cct tct tgc cac atc att gta gcc aat att tat ctg ctc cta cca ccc      864
Pro Ser Cys His Ile Ile Val Ala Asn Ile Tyr Leu Leu Leu Pro Pro
275                280                285

act atg aac cct att gtc tat ggg gtg aaa acc aaa cag ata cga gac      912
Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp
290                295                300

tgt gtc ata agg atc ctt tca ggt tct aag gat acc aaa tcc tac agc      960
Cys Val Ile Arg Ile Leu Ser Gly Ser Lys Asp Thr Lys Ser Tyr Ser
305                310                315                320

atg tga
Met
966

```

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<210> 422
<211> 321
<212> PRT
<213> Homo Sapiens

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```

<400> 422

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Met Leu Thr Leu Asn Lys Thr Asp Leu Ile Pro Ala Ser Phe Ile Leu
1      5      10      15

Asn Gly Val Pro Gly Leu Glu Asp Thr Gln Leu Trp Ile Ser Phe Pro
20      25      30

Phe Cys Ser Met Tyr Val Val Ala Met Val Gly Asn Cys Gly Leu Leu
35      40      45

Tyr Leu Ile His Tyr Glu Asp Ala Leu His Lys Pro Met Tyr Tyr Phe
50      55      60

Leu Ala Met Leu Ser Phe Thr Asp Leu Val Met Cys Ser Ser Thr Ile
65      70      75      80

Pro Lys Ala Leu Cys Ile Phe Trp Phe His Leu Lys Asp Ile Gly Phe
85      90      95

Asp Glu Cys Leu Val Gln Met Phe Phe Ile His Thr Phe Thr Gly Met
100     105     110

Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
115     120     125

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WO 02/24726

PCT/BE01/00162

Cys Tyr Pro Leu Arg Tyr Ser Thr Ile Leu Thr Asn Pro Val Ile Ala
130 135 140

Lys Val Gly Thr Ala Thr Phe Leu Arg Gly Val Leu Ile Ile Pro
145 150 155 160

Phe Thr Phe Leu Thr Lys Arg Leu Pro Tyr Cys Arg Gly Asn Ile Leu
165 170 175

Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Leu Ser Cys Gly
180 185 190

Asn Val Iys Val Asn Ala Ile Tyr Gly Leu Met Val Ala Leu Ile
195 200 205

Gly Gly Phe Asp Ile Leu Cys Ile Thr Ile Ser Tyr Thr Met Ile Leu
210 215 220

Arg Ala Val Val Ser Leu Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe
225 230 235 240

Asn Thr Cys Thr Ala His Ile Cys Ala Ile Val Phe Ser Tyr Thr Pro
245 250 255

Ala Phe Phe Ser Phe Phe Ser His Arg Phe Gly Gln His Ile Ile Pro
260 265 270

Pro Ser Cys His Ile Ile Val Ala Asn Ile Tyr Leu Leu Leu Pro Pro
275 280 285

Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp
290 295 300

Cys Val Ile Arg Ile Leu Ser Gly Ser Lys Asp Thr Lys Ser Tyr Ser
305 310 315 320

Met

<210> 423
<211> 966
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS

WO 02/24726

PCT/BE01/00162

<222> (1)..(963)
<223>

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<400> 423
atg gaa tct cct aat cac act gat gtt gac cct tct gtc ttc ttc ctc 48
Met Glu Ser Pro Asn His Thr Asp Val Asp Pro Ser Val Phe Phe Leu
1 5 10 15

ctg ggc atc cca ggt ctg gaa caa ttt cat ttg tgg ctc tca ctc cct 96
Leu Gly Ile Pro Gly Leu Glu Gln Phe His Leu Trp Leu Ser Leu Pro
20 25 30

gtg tgt ggc tta ggc aca gcc aca att gtg ggc aat ata act att ctg 144
Val Cys Gly Leu Gly Thr Ala Thr Ile Val Gly Asn Ile Thr Ile Leu
35 40 45

gtt gtt gtt gcc act gaa cca gtc ttg cac aag cct gtg tac ctt ttt 192
Val Val Val Ala Thr Glu Pro Val Leu His Lys Pro Val Tyr Leu Phe
50 55 60

ctg tgc atg ctc tca acc atc gac ttg gct gcc tct gtc tcc aca gtt 240
Leu Cys Met Leu Ser Thr Ile Asp Leu Ala Ala Ser Val Ser Thr Val
65 70 75 80

ccc aag cta ctg gct atc ttc tgg tgt gga gcc gga cat ata tct gcc 288
Pro Lys Leu Leu Ala Ile Phe Trp Cys Gly Ala Gly His Ile Ser Ala
85 90 95

tct gcc tgc ctg gca cag atg ttc ttc att cat gcc ttc tgc atg atg 336
Ser Ala Cys Leu Ala Gln Met Phe Phe Ile His Ala Phe Cys Met Met
100 105 110

gag tcc act gtg cta ctg gcc atg gcc ttt gat cgc taa gtg gcc atc 384
Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
115 120 125

tgc cac cca ctc cgc tat gcc aca atc ctc act gac acc atc att gcc 432
Cys His Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asp Thr Ile Ile Ala
130 135 140

cac ata ggg gtg gca gct gta gtg cga ggc tcc ctg ctc atg ctc cca 480
His Ile Gly Val Ala Ala Val Val Arg Gly Ser Leu Leu Met Leu Pro
145 150 155 160

tgt ccc ttc ctt att ggg cgt ttg aac ttc tgc caa agc cat gtg atc 528
Cys Pro Phe Leu Ile Gly Arg Leu Asn Phe Cys Gln Ser His Val Ile
165 170 175

cta cac acg tac tgt gag cac atg gct gtg gtg aag ctg gcc tgt gga 576
Leu His Thr Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys Gly
180 185 190

gac acc agg cct aac cgt gtg tat ggg ctg aca gct gca ctg ttg gtc 624
Asp Thr Arg Pro Asn Arg Val Tyr Gly Leu Thr Ala Ala Leu Leu Val
195 200 205

att ggg gtt gac ttg ttt tgc att ggt ctc tcc tat gcc cta agt gca 672
Ile Gly Val Asp Leu Phe Cys Ile Gly Leu Ser Tyr Ala Leu Ser Ala
210 215 220

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caa gct gtc ctt cgc ctc tca tcc cat gaa gct cgg tcc aag gcc cta      720
Gln Ala Val Leu Arg Leu Ser Ser His Glu Ala Arg Ser Lys Ala Leu
225                230                235                240

ggg acc tgt ggt tcc cat gtc tgt gtc atc ctc atc tct tat aca cca      768
Gly Thr Cys Gly Ser His Val Cys Val Ile Leu Ile Ser Tyr Thr Pro
245                250                255

gcc ctc ttc tcc ttt ttt aca cac cgc ttt ggc cat cac gtt cca gtc      816
Ala Leu Phe Ser Phe Phe Thr His Arg Phe Gly His His Val Pro Val
260                265                270

cat att cac att ctt ttg gcc aat gtt tat ctg ctt ttg cca cct gct      864
His Ile His Ile Leu Leu Ala Asn Val Tyr Leu Leu Leu Pro Pro Ala
275                280                285

ctt aat cct gtg gta tat gga gtt aag aoc aaa cag atc cgt aaa aga      912
Leu Asn Pro Val Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Lys Arg
290                295                300

gtt gtc agg gtc ttt caa agt ggg cag gga atg ggc atc aag gca tct      960
Val Val Arg Val Phe Gln Ser Gly Gln Gly Met Gly Ile Lys Ala Ser
305                310                315                320

gag tga
Glu
966

<210> 424
<211> 321
<212> PRT
<213> Homo Sapiens

<400> 424

Met Glu Ser Pro Asn His Thr Asp Val Asp Pro Ser Val Phe Phe Leu
1          5          10          15

Leu Gly Ile Pro Gly Leu Glu Gln Phe His Leu Trp Leu Ser Leu Pro
20          25          30

Val Cys Gly Leu Gly Thr Ala Thr Ile Val Gly Asn Ile Thr Ile Leu
35          40          45

Val Val Val Ala Thr Glu Pro Val Leu His Lys Pro Val Tyr Leu Phe
50          55          60

Leu Cys Met Leu Ser Thr Ile Asp Leu Ala Ala Ser Val Ser Thr Val
65          70          75          80

Pro Lys Leu Leu Ala Ile Phe Trp Cys Gly Ala Gly His Ile Ser Ala
85          90          95

Ser Ala Cys Leu Ala Gln Met Phe Phe Ile His Ala Phe Cys Met Met

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100 105 110
 Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys His Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asp Thr Ile Ile Ala
 130 135 140
 His Ile Gly Val Ala Ala Val Val Arg Gly Ser Leu Leu Met Leu Pro
 145 150 155 160
 Cys Pro Phe Leu Ile Gly Arg Leu Asn Phe Cys Gln Ser His Val Ile
 165 170 175
 Leu His Thr Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys Gly
 180 185 190
 Asp Thr Arg Pro Asn Arg Val Tyr Gly Leu Thr Ala Ala Leu Leu Val
 195 200 205
 Ile Gly Val Asp Leu Phe Cys Ile Gly Leu Ser Tyr Ala Leu Ser Ala
 210 215 220
 Gln Ala Val Leu Arg Leu Ser Ser His Glu Ala Arg Ser Lys Ala Leu
 225 230 235 240
 Gly Thr Cys Gly Ser His Val Cys Val Ile Leu Ile Ser Tyr Thr Pro
 245 250 255
 Ala Leu Phe Ser Phe Phe Thr His Arg Phe Gly His His Val Pro Val
 260 265 270
 His Ile His Ile Leu Leu Ala Asn Val Tyr Leu Leu Leu Pro Pro Ala
 275 280 285
 Leu Asn Pro Val Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Lys Arg
 290 295 300
 Val Val Arg Val Phe Gln Ser Gly Gln Gly Met Gly Ile Lys Ala Ser
 305 310 315 320
 Glu
 <210> 425
 <211> 875

WO 02/24726

PCT/BE01/00162

<212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(972)
 <223>

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<400> 425
atg aat cat atg tct gca tct ctc aaa atc tcc aat agc tcc aaa ttc      48
Met Asn His Met Ser Ala Ser Leu Lys Ile Ser Asn Ser Ser Lys Phe
1          5          10          15

cag gtc tct gag ttc atc ctg ctg gga ttc ccg ggc att cac agc tgg      96
Gln Val Ser Glu Phe Ile Leu Leu Gly Phe Pro Gly Ile His Ser Trp
20         25         30         35

caa cac tgg cta tct ctg ccc ctg gca cta ctg tat ctc tca gca ctt     144
Gln His Trp Leu Ser Leu Pro Leu Ala Leu Leu Tyr Leu Ser Ala Leu
35         40         45

gct gca aac acc ctc atc ctc atc atc atc tgg cag aac cct tct tta     192
Ala Ala Asn Thr Leu Ile Leu Ile Ile Ile Trp Gln Asn Pro Ser Leu
50         55         60

cag cag ccc atg tat att ttc ctt ggc atc ctc tgt atg gta gac atg     240
Gln Gln Pro Met Tyr Ile Phe Leu Gly Ile Leu Cys Met Val Asp Met
65         70         75

ggg ctg gcc act act atc atc cct aag atc ctg gcc atc ttc tgg ttt     288
Gly Leu Ala Thr Thr Ile Ile Pro Lys Ile Leu Ala Ile Phe Trp Phe
85         90         95

gat gcc aag gtt att agc ctc cct gag tgc ttt gct cag att tat gcc     336
Asp Ala Lys Val Ile Ser Leu Pro Glu Cys Phe Ala Gln Ile Tyr Ala
100        105        110

att cac ttc ttt gtg ggc atg gag tot ggt atc cta ctc tgc atg gct     384
Ile His Phe Phe Val Gly Met Glu Ser Gly Ile Leu Leu Cys Met Ala
115        120        125

ttt gat aga tak gtg got att tgt cac cct ctt ogc tat cca tca att     432
Phe Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile
130        135        140

gtc acc agt tcc tta atc tta aaa gct acc ctg ttc atg gtg ctg aga     480
Val Thr Ser Ser Leu Ile Leu Lys Ala Thr Leu Phe Met Val Leu Arg
145        150        155        160

aat ggc tta ttt gtc act cca gtg cct gtg ctt gca gca cag cgt gat     528
Asn Gly Leu Phe Val Thr Pro Val Pro Val Leu Ala Ala Gln Arg Asp
165        170        175

tat tgc tcc aag aat gaa att gaa cac tgc ctg tgc tct aac ctt ggg     576
Tyr Cys Ser Lys Asn Glu Ile Glu His Cys Leu Cys Ser Asn Leu Gly
180        185        190

gtc aca agc ctg gct tgt gat gac agg agg cca aac ago att tgc cag     624
Val Thr Ser Leu Ala Cys Asp Asp Arg Arg Pro Asn Ser Ile Cys Gln
195        200        205

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ttg gtt ctg gca tgg ctt gga atg ggg agt gat cta agt ctt att ata      672
Leu Val Leu Ala Trp Leu Gly Met Gly Ser Asp Leu Ser Leu Ile Ile
210                215                220

ctg tca tat att ttg att ctg tac tct gta ctt aga ctg aac tca got      720
Leu Ser Tyr Ile Leu Ile Leu Tyr Ser Val Leu Arg Leu Asn Ser Ala
225                230                235                240

gaa gct gca gcc aag gcc ctg agc act tgt agt tca cat ctc acc ctc      768
Glu Ala Ala Ala Lys Ala Leu Ser Thr Cys Ser Ser His Leu Thr Leu
245                250                255

atc ctt ttc ttt tac act att gtt gta gtc att tca gtg act cat ctg      816
Ile Leu Phe Phe Tyr Thr Ile Val Val Val Ile Ser Val Thr His Leu
260                265                270

aca gag atg aag gct act ttg att cca gtt cta ctt aat gtg ttg cac      864
Thr Glu Met Lys Ala Thr Leu Ile Pro Val Leu Leu Asn Val Leu His
275                280                285

aac atc atc ccc cct tcc ctc aac cct aca gtt tat gca ctt cag acc      912
Asn Ile Ile Pro Pro Ser Leu Asn Pro Thr Val Tyr Ala Leu Gln Thr
290                295                300

aaa gaa ctt agg gca gcc ttc can aag gtg ctg ttt gcc ctt aca aaa      960
Lys Glu Leu Arg Ala Ala Phe Gln Lys Val Leu Phe Ala Leu Thr Lys
305                310                315                320

gaa ata aga tct tag      975
Glu Ile Arg Ser

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<210> 426
<211> 324
<212> PRT
<213> Homo Sapiens

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<400> 426

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Met Asn His Met Ser Ala Ser Leu Lys Ile Ser Asn Ser Ser Lys Phe
1      5      10      15

Gln Val Ser Glu Phe Ile Leu Leu Gly Phe Pro Gly Ile His Ser Trp
20     25     30

Gln His Trp Leu Ser Leu Pro Leu Ala Leu Leu Tyr Leu Ser Ala Leu
35     40     45

Ala Ala Asn Thr Leu Ile Leu Ile Ile Ile Trp Gln Asn Pro Ser Leu
50     55     60

Gln Gln Pro Met Tyr Ile Phe Leu Gly Ile Leu Cys Met Val Asp Met
65     70     75     80

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PCT/BE01/00162

Gly Leu Ala Thr Thr Ile Ile Pro Lys Ile Leu Ala Ile Phe Trp Phe
 85 90 95
 Asp Ala Lys Val Ile Ser Leu Pro Glu Cys Phe Ala Gln Ile Tyr Ala
 100 105 110
 Ile His Phe Phe Val Gly Met Glu Ser Gly Ile Leu Leu Cys Met Ala
 115 120 125
 Phe Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile
 130 135 140
 Val Thr Ser Ser Leu Ile Leu Lys Ala Thr Leu Phe Met Val Leu Arg
 145 150 155 160
 Asn Gly Leu Phe Val Thr Pro Val Pro Val Leu Ala Ala Gln Arg Asp
 165 170 175
 Tyr Cys Ser Lys Asn Glu Ile Glu His Cys Leu Cys Ser Asn Leu Gly
 180 185 190
 Val Thr Ser Leu Ala Cys Asp Asp Arg Arg Pro Asn Ser Ile Cys Gln
 195 200 205
 Leu Val Leu Ala Trp Leu Gly Met Gly Ser Asp Leu Ser Leu Ile Ile
 210 215 220
 Leu Ser Tyr Ile Leu Ile Leu Tyr Ser Val Leu Arg Leu Asn Ser Ala
 225 230 235 240
 Glu Ala Ala Ala Lys Ala Leu Ser Thr Cys Ser Ser His Leu Thr Leu
 245 250 255
 Ile Leu Phe Phe Tyr Thr Ile Val Val Val Ile Ser Val Thr His Leu
 260 265 270
 Thr Glu Met Lys Ala Thr Leu Ile Pro Val Leu Leu Asn Val Leu His
 275 280 285
 Asn Ile Ile Pro Pro Ser Leu Asn Pro Thr Val Tyr Ala Leu Gln Thr
 290 295 300
 Lys Glu Leu Arg Ala Ala Phe Gln Lys Val Leu Phe Ala Leu Thr Lys
 305 310 315 320
 Glu Ile Arg Ser

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PCT/BE01/00162

<210> 427
 <211> 900
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1) .. (897)
 <223>

<400> 427
 atg gga ttc cct ggc att cac agt tgg cag cac tgg ctc tcc ctg ccc 48
 Met Gly Phe Pro Gly Ile His Ser Trp Gln His Trp Leu Ser Leu Pro
 1 5 10 15
 ctg gct ctg ctc tac ctc tta gct ctc agt gcc aac atc ctt atc ctg 96
 Leu Ala Leu Leu Tyr Leu Leu Ala Leu Ser Ala Asn Ile Leu Ile Leu
 20 25 30
 atc atc atc aac aaa gag gca gca ctg cac cag cct atg tac tat ttc 144
 Ile Ile Ile Asn Lys Gln Ala Ala Leu His Gln Pro Met Tyr Tyr Phe
 35 40 45
 ctg ggc atc ttg gct atg gca gac ata ggc ctg gct acc acc atc atg 192
 Leu Gly Ile Leu Ala Met Ala Asp Ile Gly Leu Ala Thr Thr Ile Met
 50 55 60
 cct aag att ttg gcc atc tta tgg ttc aat gct aag acc atc agt ctc 240
 Pro Lys Ile Leu Ala Ile Leu Trp Phe Asn Ala Lys Thr Ile Ser Leu
 65 70 75 80
 ctg gag tgc ttt gct cag atg tat gcc ata cat tgc ttt gtg gcc atg 288
 Leu Glu Cys Phe Ala Gln Met Tyr Ala Ile His Cys Phe Val Ala Met
 85 90 95
 gaa tca agt acc ttt gtc tgc atg gct att gat aga tat gta gcc att 336
 Glu Ser Ser Thr Phe Val Cys Met Ala Ile Asp Arg Tyr Val Ala Ile
 100 105 110
 tgt cga cag cta cga tat cca tca atc atc act gaa tct ttt gtt ttc 384
 Cys Arg Pro Leu Arg Tyr Pro Ser Ile Ile Thr Glu Ser Phe Val Phe
 115 120 125
 aaa gca aat ggg ttc atg gca ctg aga aac agc etg tgt ctc atc tca 432
 Lys Ala Asn Gly Phe Met Ala Leu Arg Asn Ser Leu Cys Leu Ile Ser
 130 135 140
 gtg cct ctg ttg gct gcc cag agg cat tac tgc tcc cag aat caa att 480
 Val Pro Leu Leu Ala Ala Gln Arg His Tyr Cys Ser Gln Asn Gln Ile
 145 150 155 160
 gag cac tgt ctt tgt tct aac ctt gga gtc act agc cta tct tgt gat 528
 Glu His Cys Leu Cys Ser Asn Leu Gly Val Thr Ser Leu Ser Cys Asp
 165 170 175
 gat cga aga atc aat agc att aac cag gtc ctt ttg gct tgg aca ctc 576
 Asp Arg Arg Ile Asn Ser Ile Asn Gln Val Leu Leu Ala Trp Thr Leu

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PCT/BE01/00162

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180          185          190
atg gga agt gac ctg ggt ctg att att tta tca tat gct cta ata ctt      624
Met Gly Ser Asp Leu Gly Leu Ile Ile Leu Ser Tyr Ala Leu Ile Leu
195          200          205

tac tct gtc ctg aag ctg aac tct cca gaa gct gca tcc aag gcc tta      672
Tyr Ser Val Leu Lys Leu Asn Ser Pro Glu Ala Ala Ser Lys Ala Leu
210          215          220

agt acc tgc acc tcc cac ctg atc tta atc ctt ttc ttc tac aca gtc      720
Ser Thr Cys Thr Ser His Leu Ile Leu Ile Leu Phe Phe Tyr Thr Val
225          230          235

atc att gtg att tcc att act cgt agt aca gga atg aga gtt ccc ctt      768
Ile Ile Val Ile Ser Ile Thr Arg Ser Thr Gly Met Arg Val Pro Leu
245          250          255

att cca gtt cta ctt aat gtg cta cac aat gtc att ccc cct gcc ctg      816
Ile Pro Val Leu Leu Asn Val Leu His Asn Val Ile Pro Pro Ala Leu
260          265          270

aac ccc atg gta tat gca ctg aag aac aag gaa ctg agg caa ggc tta      864
Asn Pro Met Val Tyr Ala Leu Lys Asn Lys Glu Leu Arg Gln Gly Leu
275          280          285

tac aag gta ctt aga ctg gga gtg aag ggc acc tga      900
Tyr Lys Val Leu Arg Leu Gly Val Lys Gly Thr
290          295

<210> 428
<211> 299
<212> PRT
<213> Homo Sapiens

<400> 428
Met Gly Phe Pro Gly Ile His Ser Trp Gln His Trp Leu Ser Leu Pro
1          5          10          15

Leu Ala Leu Leu Tyr Leu Leu Ala Leu Ser Ala Asn Ile Leu Ile Leu
20          25          30

Ile Ile Ile Asn Lys Glu Ala Ala Leu His Gln Pro Met Tyr Tyr Phe
35          40          45

Leu Gly Ile Leu Ala Met Ala Asp Ile Gly Leu Ala Thr Thr Ile Met
50          55          60

Pro Lys Ile Leu Ala Ile Leu Trp Phe Asn Ala Lys Thr Ile Ser Leu
65          70          75          80

Leu Glu Cys Phe Ala Gln Met Tyr Ala Ile His Cys Phe Val Ala Met
85          90          95

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PCT/BE01/00162

Glu Ser Ser Thr Phe Val Cys Met Ala Ile Asp Arg Tyr Val Ala Ile
 100 105 110

Cys Arg Pro Leu Arg Tyr Pro Ser Ile Ile Thr Glu Ser Phe Val Phe
 115 120 125

Lys Ala Asn Gly Phe Met Ala Leu Arg Asn Ser Leu Cys Leu Ile Ser
 130 135 140

Val Pro Leu Leu Ala Ala Gln Arg His Tyr Cys Ser Gln Asn Gln Ile
 145 150 155 160

Glu His Cys Leu Cys Ser Asn Leu Gly Val Thr Ser Leu Ser Cys Asp
 165 170 175

Asp Arg Arg Ile Asn Ser Ile Asn Gln Val Leu Leu Ala Tyr Thr Leu
 180 185 190

Met Gly Ser Asp Leu Gly Leu Ile Ile Leu Ser Tyr Ala Leu Ile Leu
 195 200 205

Tyr Ser Val Leu Lys Leu Asn Ser Pro Glu Ala Ala Ser Lys Ala Leu
 210 215 220

Ser Thr Cys Thr Ser His Leu Ile Leu Ile Leu Phe Phe Tyr Thr Val
 225 230 235 240

Ile Ile Val Ile Ser Ile Thr Arg Ser Thr Gly Met Arg Val Pro Leu
 245 250 255

Ile Pro Val Leu Leu Asn Val Leu His Asn Val Ile Pro Pro Ala Leu
 260 265 270

Asn Pro Met Val Tyr Ala Leu Lys Asn Lys Glu Leu Arg Gln Gly Leu
 275 280 285

Tyr Lys Val Leu Arg Leu Gly Val Lys Gly Thr
 290 295

<210> 429
 <211> 978
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1) .. (975)

WO 02/24726

PCT/BE01/00162

<233>

<400> 429

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atg ttc ctt ccc aat gac acc cag ttt cac ccc tcc tcc ttc ctg ttg      48
Met Phe Leu Pro Asn Asp Thr Gln Phe His Pro Ser Ser Phe Leu Leu
1      5      10      15

ctg ggg atc cca gga cta gaa sca ctt cac atc tgg atc ggc ttt ccc      96
Leu Gly Ile Pro Gly Leu Glu Thr Leu His Ile Trp Ile Gly Phe Pro
20      25      30

ttc tgt gct gtg tac atg atc gca ctc ata ggg aac ttc act att cta      144
Phe Cys Ala Val Tyr Met Ile Ala Leu Ile Gly Asn Phe Thr Ile Leu
35      40      45

ctt gtg atc aag act gac agc agc cta cac cag ccc atg ttc tac ttc      192
Leu Val Ile Lys Thr Asp Ser Ser Leu His Gln Pro Met Phe Tyr Phe
50      55      60

ctg gcc atg ttg gcc acc act gat gtg ggt ctc tca aca gct acc atc      240
Leu Ala Met Leu Ala Thr Thr Asp Val Gly Leu Ser Thr Ala Thr Ile
65      70      75      80

ctt aag atg ctt gga atc ttc tgg atc aac ctc aga ggg atc atc ttt      288
Pro Lys Met Leu Gly Ile Phe Trp Ile Asn Leu Arg Gly Ile Ile Phe
85      90      95

gaa gcc tgc ctc acc cag atg ttt ttt atc cac aac ttc aca ctt atg      336
Glu Ala Cys Leu Thr Gln Met Phe Phe Ile His Asn Phe Thr Leu Met
100      105      110

gag tca gca gtc ctt gtg gca atg gct tat gac agc tat gtg gcc atc      384
Glu Ser Ala Val Leu Val Ala Met Ala Tyr Asp Ser Tyr Val Ala Ile
115      120      125

tgc aat cca ctc caa tat agc gcc atc ctc acc aac aag gtt gtt tct      432
Cys Asn Pro Leu Gln Tyr Ser Ala Ile Leu Thr Asn Lys Val Val Ser
130      135      140

gtg att ggt ctt ggt gtg ttt gtg agg gct tta att ttc gtc att ccc      480
Val Ile Gly Leu Gly Val Phe Val Arg Ala Leu Ile Phe Val Ile Pro
145      150      155      160

tct ata ctt ctt ata ttg cgg ttg ccc ttc tgt ggg aat cat gta att      528
Ser Ile Leu Leu Ile Leu Arg Leu Pro Phe Cys Gly Asn His Val Ile
165      170      175

ccc cac acc tac tgt gag cac atg ggt ctt gct cat cta tct tgt gcc      576
Pro His Thr Tyr Cys Glu His Met Gly Leu Ala His Leu Ser Cys Ala
180      185      190

agc atc aaa atc aat att att tat ggt tta tgt gcc att tgt aat ctg      624
Ser Ile Lys Ile Asn Ile Ile Tyr Gly Leu Cys Ala Ile Cys Asn Leu
195      200      205

gtg ttt gac atc aca gtc att gcc ctc tct tat gtg cat att ctt tgt      672
Val Phe Asp Ile Thr Val Ile Ala Leu Ser Tyr Val His Ile Leu Cys
210      215      220

gct gtt ttc cgt ctt cct act cat gag ccc cga ctc aag tcc ctc agc      720

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PCT/BE01/00162

Ala Val Phe Arg Leu Pro Thr His Glu Pro Arg Leu Lys Ser Leu Ser
 225 230 235 240

aca tgt ggt tca cat gtg tgt gta atc ctt gcc ttc tat aca cca gcc 768
 Thr Cys Gly Ser His Val Cys Val Ile Leu Ala Phe Tyr Thr Pro Ala
 245 250 255

ctc ttt tcc ttt atg act cat tgc ttt gcc cga aat gtg ccc cgc tat 816
 Leu Phe Ser Phe Met Thr His Cys Phe Gly Arg Asn Val Pro Arg Tyr
 260 265 270

atc cat ata ctc cta gcc aat ctc tat gtt gtg gtg cca cca atg ctc 864
 Ile His Ile Leu Leu Ala Asn Leu Tyr Val Val Val Pro Pro Met Leu
 275 280 285

aat cct gtc ata tat gga gtc aga acc aag cag atc tat aaa tgt gta 912
 Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Tyr Lys Cys Val
 290 295 300

aag aaa ata tta ttg cag gaa caa gga atg gaa aag gaa gag tac cta 960
 Lys Lys Ile Leu Leu Gln Glu Gln Gly Met Glu Lys Glu Glu Tyr Leu
 305 310 315 320

ata cat acg agg ttc tga 978
 Ile His Thr Arg Phe
 325

<210> 430
 <211> 325
 <212> PRT
 <213> Homo Sapiens

<400> 430

Met Phe Leu Pro Asn Asp Thr Gln Phe His Pro Ser Ser Phe Leu Leu
 1 5 10 15

Leu Gly Ile Pro Gly Leu Glu Thr Leu His Ile Trp Ile Gly Phe Pro
 20 25 30

Phe Cys Ala Val Tyr Met Ile Ala Leu Ile Gly Asn Phe Thr Ile Leu
 35 40 45

Leu Val Ile Lys Thr Asp Ser Ser Leu His Gln Pro Met Phe Tyr Phe
 50 55 60

Leu Ala Met Leu Ala Thr Thr Asp Val Gly Leu Ser Thr Ala Thr Ile
 65 70 75 80

Pro Lys Met Leu Gly Ile Phe Trp Ile Asn Leu Arg Gly Ile Ile Phe
 85 90 95

Glu Ala Cys Leu Thr Gln Met Phe Phe Ile His Asn Phe Thr Leu Met
 100 105 110

WO 02/24726

PCT/BE01/00162

Glu Ser Ala Val Leu Val Ala Met Ala Tyr Asp Ser Tyr Val Ala Ile
 115 120 125
 Cys Asn Pro Leu Gln Tyr Ser Ala Ile Leu Thr Asn Lys Val Val Ser
 130 135 140
 Val Ile Gly Leu Gly Val Phe Val Arg Ala Leu Ile Phe Val Ile Pro
 145 150 155 160
 Ser Ile Leu Leu Ile Leu Arg Leu Pro Phe Cys Gly Asn His Val Ile
 165 170 175
 Pro His Thr Tyr Cys Glu His Met Gly Leu Ala His Leu Ser Cys Ala
 180 185 190
 Ser Ile Lys Ile Asn Ile Ile Tyr Gly Leu Cys Ala Ile Cys Asn Leu
 195 200 205
 Val Phe Asp Ile Thr Val Ile Ala Leu Ser Tyr Val His Ile Leu Cys
 210 215 220
 Ala Val Phe Arg Leu Pro Thr His Glu Pro Arg Leu Lys Ser Leu Ser
 225 230 235 240
 Thr Cys Gly Ser His Val Cys Val Ile Leu Ala Phe Tyr Thr Pro Ala
 245 250 255
 Leu Phe Ser Phe Met Thr His Cys Phe Gly Arg Asn Val Pro Arg Tyr
 260 265 270
 Ile His Ile Leu Leu Ala Asn Leu Tyr Val Val Val Pro Pro Met Leu
 275 280 285
 Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Tyr Lys Cys Val
 290 295 300
 Lys Lys Ile Leu Leu Gln Glu Gln Gly Met Glu Lys Glu Glu Tyr Leu
 305 310 315 320
 Ile His Thr Arg Phe
 325

<210> 431
 <211> 527
 <212> DNA

WO 02/24726

PCT/BE01/00162

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(924)

<223>

<400> 431

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atg aat acc act cta ttt cat cct tac tct ttc ctt ctt ctg gga att      48
Met Asn Thr Thr Leu Phe His Pro Tyr Ser Phe Leu Leu Leu Gly Ile
1      5      10      15

cct ggg ctg gaa agt atg cat ctc tgg gtt ggt ttt cct ttc ttt gct      96
Pro Gly Leu Glu Ser Met His Leu Trp Val Gly Phe Pro Phe Phe Ala
20     25     30

gtg ttc ctg aca gct gtc ctt ggg aat atc acc atc ctt ttt ctg att      144
Val Phe Leu Thr Ala Val Leu Gly Asn Ile Thr Ile Leu Phe Val Ile
35     40     45

cag aat gac agt agt ctc cat cat ccc atg ttc tac ttc ctg gcc att      192
Gln Thr Asp Ser Ser Leu His His Pro Met Phe Tyr Phe Leu Ala Ile
50     55     60

ctg tca tct att gac ccg ggc ctg tct aca tcc acc atc cct aaa atg      240
Leu Ser Ser Ile Asp Pro Gly Leu Ser Thr Ser Thr Ile Pro Lys Met
65     70     75     80

ctt ggc acc ttc tgg ttt acc ctg aga gaa atc tcc ttt gaa gga tgc      288
Leu Gly Thr Phe Trp Phe Thr Leu Arg Glu Ile Ser Phe Glu Gly Cys
85     90     95

ctt acc cag atg ttc ttc atc cac ctg tgc act ggc atg gaa tca gct      336
Leu Thr Gln Met Phe Phe Ile His Leu Cys Thr Gly Met Glu Ser Ala
100    105    110

gtg ctt gtg gcc atg gcc tat gat tgc tat gtg gcc atc tgt gac cct      384
Val Leu Val Ala Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Asp Pro
115    120    125

ctt tgc tac acg ttg gtg ctg aca aac aag gtg gtg tca gtt atg gca      432
Leu Cys Tyr Thr Leu Val Leu Thr Asn Lys Val Val Ser Val Met Ala
130    135    140

ctg gcc atc ttt ctg aga ccc tta gtc ttt gtc ata ccc ttt gtt cta      480
Leu Ala Ile Phe Leu Arg Pro Leu Val Phe Val Ile Pro Phe Val Leu
145    150    155    160

ttt atc cta agg ctt cca ttt tgt gga cac caa att att cct cat act      528
Phe Ile Leu Arg Leu Pro Phe Cys Gly His Gln Ile Ile Pro His Thr
165    170    175

tat ggt gag cat atg ggc att gcc cgc ctg tct tgt gcc agc atc agg      576
Tyr Gly Glu His Met Gly Ile Ala Arg Leu Ser Cys Ala Ser Ile Arg
180    185    190

gtt aac atc atc tat ggc tta tgt gcc atc tct atc ctg gtc ttt gac      624
Val Asn Ile Ile Tyr Gly Leu Cys Ala Ile Ser Ile Leu Val Phe Asp
195    200    205

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atc ata gca att gtc att tcc tat gta cag atc ctt tgt gct gta ttt      672
ile ile ala ile val ile ser tyr val gln ile leu cys ala val phe
210                               215                               220

cta ctc tct tca cat gat gca cga ctc aag gca ttc agc acc tgt ggc      720
leu leu ser ser his asp ala arg leu lys ala phe ser thr cys gly
225                               230                               235                               240

tct cat gtg tgt gtc atg ttg act ttc tat atg cct gca ttt ttc tca      768
ser his val cys val met leu thr phe tyr met pro ala phe phe ser
245                               250                               255

ttc atg acc cat agg ttt ggt cgg aat ata cct cac ttt atc cac att      816
phe met thr his arg phe gly arg asn ile pro his phe ile his ile
260                               265                               270

ctt ctg gct aat ttc tat gta gtc att cca cct gct ctc aac tct gta      864
leu leu ala asn phe tyr val val ile pro pro ala leu asn ser val
275                               280                               285

att tat ggt gtc aga acc aaa cag att aga gca caa gtg ctg aaa atg      912
ile tyr gly val arg thr lys gln ile arg ala gln val leu lys met
290                               295                               300

ttt ttc aat aaa taa      927
phe phe asn lys
305

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<210> 432
<211> 308
<212> PRT
<213> Homo Sapiens

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<400> 432

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```

Met Asn Thr Thr Leu Phe His Pro Tyr Ser Phe Leu Leu Leu Gly Ile
1                               5                               10                               15

Pro Gly Leu Glu Ser Met His Leu Trp Val Gly Phe Pro Phe Phe Ala
20                               25                               30

Val Phe Leu Thr Ala Val Leu Gly Asn Ile Thr Ile Leu Phe Val Ile
35                               40                               45

Gln Thr Asp Ser Ser Leu His His Pro Met Phe Tyr Phe Leu Ala Ile
50                               55                               60

Leu Ser Ser Ile Asp Pro Gly Leu Ser Thr Ser Thr Ile Pro Lys Met
65                               70                               75                               80

Leu Gly Thr Phe Trp Phe Thr Leu Arg Glu Ile Ser Phe Glu Gly Cys
85                               90                               95

Leu Thr Gln Met Phe Phe Ile His Leu Cys Thr Gly Met Glu Ser Ala

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100 105 110
 Val Leu Val Ala Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Asp Pro
 115 120 125
 Leu Cys Tyr Thr Leu Val Leu Thr Asn Lys Val Val Ser Val Met Ala
 130 135 140
 Leu Ala Ile Phe Leu Arg Pro Leu Val Phe Val Ile Pro Phe Val Leu
 145 150 155 160
 Phe Ile Leu Arg Leu Pro Phe Cys Gly His Gln Ile Ile Pro His Thr
 165 170 175
 Tyr Gly Glu His Met Gly Ile Ala Arg Leu Ser Cys Ala Ser Ile Arg
 180 185 190
 Val Asn Ile Ile Tyr Gly Leu Cys Ala Ile Ser Ile Leu Val Phe Asp
 195 200 205
 Ile Ile Ala Ile Val Ile Ser Tyr Val Gln Ile Leu Cys Ala Val Phe
 210 215 220
 Leu Leu Ser Ser His Asp Ala Arg Leu Lys Ala Phe Ser Thr Cys Gly
 225 230 235 240
 Ser His Val Cys Val Met Leu Thr Phe Tyr Met Pro Ala Phe Phe Ser
 245 250 255
 Phe Met Thr His Arg Phe Gly Arg Asn Ile Pro His Phe Ile His Ile
 260 265 270
 Leu Leu Ala Asn Phe Tyr Val Val Ile Pro Pro Ala Leu Asn Ser Val
 275 280 285
 Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Ala Gln Val Leu Lys Met
 290 295 300
 Phe Phe Asn Lys
 305
 <210> 433
 <211> 936
 <212> DNA
 <213> Homo Sapiens
 <220>

WO 02/24726

PCT/BE01/00162

<221> CDS
 <222> (1)..(933)
 <223>

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<#00> 433
atg ttt tat cac aac aag agc ata ttt cac cca gtc aca ttt ttc ctc      48
Met Phe Tyr His Asn Lys Ser Ile Phe His Pro Val Thr Phe Phe Leu
1      5      10      15

att gga atc cca ggt ctg gaa gac ttc cac atg tgg atc tcc ggg cct      96
Ile Gly Ile Pro Gly Leu Glu Asp Phe His Met Trp Ile Ser Gly Pro
20     25     30

ttc tgc tct gtt tac ctt gtg gct ttg ctg ggc aat gcc acc att ctg      144
Phe Cys Ser Val Tyr Leu Val Ala Leu Leu Gly Asn Ala Thr Ile Leu
35     40     45

cta gtc atc aag gta gaa cag act ctc cgg gag gcc atg ttc tac ttc      192
Leu Val Ile Lys Val Glu Gln Thr Leu Arg Glu Pro Met Phe Tyr Phe
50     55     60

ctg gcc att ctt tcc act att gat ttg gcc gtt tct gca acc tct ctg      240
Leu Ala Ile Leu Ser Thr Ile Asp Leu Ala Leu Ser Ala Thr Ser Val
65     70     75

cct cgc atg ctg ggt atc ttc tgg ttt gat gct cac gag att aac tat      288
Pro Arg Met Leu Gly Ile Phe Trp Phe Asp Ala His Glu Ile Asn Tyr
85     90     95

gga gct tgt gtg gcc cag atg ttt ctg atc cat gcc ttc act ggc atg      336
Gly Ala Cys Val Ala Gln Met Phe Leu Ile His Ala Phe Thr Gly Met
100    105    110

gag gct gag gtc tta ctg gct atg gct ttt gac cgt tat gtg gcc atc      384
Glu Ala Glu Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
115    120    125

tgt gct cca cta cat tac gca acc atc ttg aca tcc cta gtg ttg gtg      432
Cys Ala Pro Leu His Tyr Ala Thr Ile Leu Thr Ser Leu Val Leu Val
130    135    140

ggc att agc atg tgc att gta att cgt gcc gtt tta ctt aca ctt ccc      480
Gly Ile Ser Met Cys Ile Val Ile Arg Pro Val Leu Leu Thr Leu Pro
145    150    155    160

atg gtc tat ctt atc tac cgc cta ccc ttt tgt cag gct cac ata ata      528
Met Val Tyr Leu Ile Tyr Arg Leu Pro Phe Cys Gln Ala His Ile Ile
165    170    175

gcc cat tcc tac tgt gag cac atg ggc att gca aaa ttg tcc tgt gga      576
Ala His Ser Tyr Cys Glu His Met Gly Ile Ala Lys Leu Ser Cys Gly
180    185    190

aac att cgt atc aat ggt atc tat ggg ctt ttt gta gtt tct ttc ttt      624
Asn Ile Arg Ile Asn Gly Ile Tyr Gly Leu Phe Val Val Ser Phe Phe
195    200    205

gtt ctg aac ctg gtg ctc att ggc atc tgg tat gtt tac att ctc cgt      672
Val Leu Asn Leu Val Leu Ile Gly Ile Ser Tyr Val Tyr Ile Leu Arg
210    215    220

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PCT/BE01/00162

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get gtc ttc cgc ctc cca tca cat gat gct cag cta aaa gcc cta agc      720
Ala Val Phe Arg Leu Pro Ser His Asp Ala Gln Leu Lys Ala Leu Ser
225                230                235                240

acg tgt ggc gct cat gtt gga gtc atc tgt gtt ttc tat atc cct tca      768
Thr Cys Gly Ala His Val Gly Val Ile Cys Val Phe Tyr Ile Pro Ser
245                250                255

gtc ttc tct ttc ctt act cat cga ttt gga cac caa ata cca ggt tac      816
Val Phe Ser Phe Leu Thr His Arg Phe Gly His Gln Ile Pro Gly Tyr
260                265                270

att cac att ctt gtt gcc aat ctc tat ttg att atc cca ccc tct ctc      864
Ile His Ile Leu Val Ala Asn Leu Tyr Leu Ile Ile Pro Pro Ser Leu
275                280                285

aac ccc atc att tat ggg gtg agg acc aaa cag att cga gag cga gtg      912
Asn Pro Ile Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Glu Arg Val
290                295                300

ctc tat gtt ttt act aaa aaa taa      936
Leu Tyr Val Phe Thr Lys Lys
305                310

<210> 434
<211> 311
<212> FRT
<213> Homo Sapiens

<400> 434
Met Phe Tyr His Asn Lys Ser Ile Phe His Pro Val Thr Phe Phe Leu
1      5      10      15

Ile Gly Ile Pro Gly Leu Glu Asp Phe His Met Trp Ile Ser Gly Pro
20     25     30

Phe Cys Ser Val Tyr Leu Val Ala Leu Leu Gly Asn Ala Thr Ile Leu
35     40     45

Leu Val Ile Lys Val Glu Gln Thr Leu Arg Glu Pro Met Phe Tyr Phe
50     55     60

Leu Ala Ile Leu Ser Thr Ile Asp Leu Ala Leu Ser Ala Thr Ser Val
65     70     75     80

Pro Arg Met Leu Gly Ile Phe Trp Phe Asp Ala His Glu Ile Asn Tyr
85     90     95

Gly Ala Cys Val Ala Gln Met Phe Leu Ile His Ala Phe Thr Gly Met
100    105    110

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WO 02/24726

PCT/BE01/00162

Glu Ala Glu Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
 115 120 125

Cys Ala Pro Leu His Tyr Ala Thr Ile Leu Thr Ser Leu Val Leu Val
 130 135 140

Gly Ile Ser Met Cys Ile Val Ile Arg Pro Val Leu Leu Thr Leu Pro
 145 150 155 160

Met Val Tyr Leu Ile Tyr Arg Leu Pro Phe Cys Gln Ala His Ile Ile
 165 170 175

Ala His Ser Tyr Cys Glu His Met Gly Ile Ala Lys Leu Ser Cys Gly
 180 185 190

Asn Ile Arg Ile Asn Gly Ile Tyr Gly Leu Phe Val Val Ser Phe Phe
 195 200 205

Val Leu Asn Leu Val Leu Ile Gly Ile Ser Tyr Val Tyr Ile Leu Arg
 210 215 220

Ala Val Phe Arg Leu Pro Ser His Asp Ala Gln Leu Lys Ala Leu Ser
 225 230 235 240

Thr Cys Gly Ala His Val Gly Val Ile Cys Val Phe Tyr Ile Pro Ser
 245 250 255

Val Phe Ser Phe Leu Thr His Arg Phe Gly His Gln Ile Pro Gly Tyr
 260 265 270

Ile His Ile Leu Val Ala Asn Leu Tyr Leu Ile Ile Pro Pro Ser Leu
 275 280 285

Asn Pro Ile Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Glu Arg Val
 290 295 300

Leu Tyr Val Phe Thr Lys Lys
 305 310

<210> 435
 <211> 942
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1) .. (939)
 <223>

WO 02/24726

PCT/BE01/00162

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<400> 435
atg tcc att atc aac aca tca tat gtt gaa atc acc acc ttc ttc ttg 48
Met Ser Ile Ile Asn Thr Ser Tyr Val Glu Ile Thr Thr Phe Phe Leu
1 5 10 15

ggt ggg atg cca ggg cta gaa tat gca cac atc tgg atc tct atc ccc 96
Val Gly Met Pro Gly Leu Glu Tyr Ala His Ile Trp Ile Ser Ile Pro
20 25 30

atc tgc agc atg tat ctt att gct att cta gga aat ggc acc att ctt 144
Ile Cys Ser Met Tyr Leu Ile Ala Ile Leu Gly Asn Gly Thr Ile Leu
35 40 45

ttt atc atc aag aca gag ccc tcc ttg cat gag ccc atg tac tat ttt 192
Phe Ile Ile Lys Thr Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe
50 55 60

ctt tcc atg ttg gct atg tca gac ttg ggt ttg tct tta tca tct ctg 240
Leu Ser Met Leu Ala Met Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
65 70 75 80

ccc act gtg tta agc atc ttc ctg ttc aat gct cct gaa att tca tcc 288
Pro Thr Val Leu Ser Ile Phe Leu Phe Asn Ala Pro Glu Ile Ser Ser
85 90 95

aat gcc tgc ttt gcc dag gaa ttc ttc att cat gga ttc tca gta ctg 336
Asn Ala Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Ser Val Leu
100 105 110

gag tcc tca gtc ctc ctg atc atg tca ttt gat aga ttc cta gcc atc 384
Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp Arg Phe Leu Ala Ile
115 120 125

cac aac cct ctg aga tac acc tca atc ctg aca act gtc aga gtt gcc 432
His Asn Pro Leu Arg Tyr Thr Ser Ile Leu Thr Thr Val Arg Val Ala
130 135 140

caa ata ggg ata gta ttc tcc ttt aag agc atg ctc ctg gtt ctt ccc 480
Gln Ile Gly Ile Val Phe Ser Phe Lys Ser Met Leu Leu Val Leu Pro
145 150 155 160

ttc cct ttc act tta aga aac ttg aga tat tgc aag aaa aac caa tta 528
Phe Pro Phe Thr Leu Arg Asn Leu Arg Tyr Cys Lys Lys Asn Gln Leu
165 170 175

tcc cat tcc tac tgt ctc cac cag gat gtc atg aag ttg gcc tgt tct 576
Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ser
180 185 190

gac aac aga att gat gtt atc tat ggc ttt ttt gga gca ctc tgc ctt 624
Asp Asn Arg Ile Asp Val Ile Tyr Gly Phe Phe Gly Ala Leu Cys Leu
195 200 205

atg gta gac ttt att ctc att gct gtg tct tac acc ctg atc ctc aag 672
Met Val Asp Phe Ile Leu Ile Ala Val Ser Tyr Thr Leu Ile Leu Lys
210 215 220

act gta ctg gga att gca tcc aaa aag gag cag ctt aag gct ctc aat 720
Thr Val Leu Gly Ile Ala Ser Lys Lys Glu Gln Leu Lys Ala Leu Asn

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WO 02/24726

PCT/BE01/00162

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225          230          235          240
act tgt gtt tca cac atc tgt gca gtg atc atc ttc tac ctg ccc atc   768
thr cys val ser his ile cys ala val ile ile phe tyr leu pro ile
          245          250          255

atc aac ctg gcc gtt gtc cac cgc ttt gcc cgg cat gtc tct ccc ctg   816
ile asn leu ala val val his arg phe ala arg his val ser pro leu
          260          265          270

att aat gtt ctg atg gca aat gtt ctg cta ctt gta cct cca ctg acg   864
ile asn val leu met ala asn val leu leu leu val pro pro leu thr
          275          280          285

aac cca att gtt tat tgt gta aaa act aaa cag att aga gtg aga gtt   912
asn pro ile val tyr cys val lys thr lys gln ile arg val arg val
          290          295          300

gta gca aaa ttg tgt caa cgg aag att taa   942
val ala lys leu cys gln arg lys ile
305          310

<210> 436
<211> 313
<212> PRT
<213> Homo Sapiens

<400> 436
Met Ser Ile Ile Asn Thr Ser Tyr Val Glu Ile Thr Thr Phe Phe Leu
1          5          10          15

Val Gly Met Pro Gly Leu Glu Tyr Ala His Ile Trp Ile Ser Ile Pro
20          25          30

Ile Cys Ser Met Tyr Leu Ile Ala Ile Leu Gly Asn Gly Thr Ile Leu
35          40          45

Phe Ile Ile Lys Thr Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe
50          55          60

Leu Ser Met Leu Ala Met Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
65          70          75          80

Pro Thr Val Leu Ser Ile Phe Leu Phe Asn Ala Pro Glu Ile Ser Ser
85          90          95

Asn Ala Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Ser Val Leu
100         105         110

Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp Arg Phe Leu Ala Ile
115         120         125

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WO 02/24726

PCT/BE01/00162

His Asn Pro Leu Arg Tyr Thr Ser Ile Leu Thr Thr Val Arg Val Ala
130 135 140

Gln Ile Gly Ile Val Phe Ser Phe Lys Ser Met Leu Leu Val Leu Pro
145 150 155 160

Phe Pro Phe Thr Leu Arg Asn Leu Arg Tyr Cys Lys Lys Asn Gln Leu
165 170 175

Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ser
180 185 190

Asp Asn Arg Ile Asp Val Ile Tyr Gly Phe Phe Gly Ala Leu Cys Leu
195 200 205

Met Val Asp Phe Ile Leu Ile Ala Val Ser Tyr Thr Leu Ile Leu Lys
210 215 220

Thr Val Leu Gly Ile Ala Ser Lys Lys Glu Gln Leu Lys Ala Leu Asn
225 230 235 240

Thr Cys Val Ser His Ile Cys Ala Val Ile Ile Phe Tyr Leu Pro Ile
245 250 255

Ile Asn Leu Ala Val Val His Arg Phe Ala Arg His Val Ser Pro Leu
260 265 270

Ile Asn Val Leu Met Ala Asn Val Leu Leu Leu Val Pro Pro Leu Thr
275 280 285

Asn Pro Ile Val Tyr Cys Val Lys Thr Lys Gln Ile Arg Val Arg Val
290 295 300

Val Ala Lys Leu Cys Gln Arg Lys Ile
305 310

<210> 437
<211> 948
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1) .. (945)
<223>

<400> 437

WO 02/24726

PCT/BE01/00162

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atg gga gac tgg aat aac agt gat gct gtg gag ccc ata ttt atc ctg      48
Met Gly Asp Trp Asn Asn Ser Asp Ala Val Glu Pro Ile Phe Ile Leu
1      5      10      15

agg ggt ttt cct gga ctg gag tat gtt cat tct tgg ctc tcc atc ctc      96
Arg Gly Phe Pro Gly Leu Glu Tyr Val His Ser Trp Leu Ser Ile Leu
20     25     30

ttc tgt ctt gca tat ttg gta gca ttt atg ggt aat gtt acc atc ctg      144
Phe Cys Leu Ala Tyr Leu Val Ala Phe Met Gly Asn Val Thr Ile Leu
35     40     45

tct gtc att tgg ata gaa tcc tct ctc cat cag ccc atg tat tac ttt      192
Ser Val Ile Trp Ile Glu Ser Ser Leu His Gln Pro Met Tyr Tyr Phe
50     55     60

att tcc atc tta gca gtg aat gac ctg ggg atg tcc ctg tct aca ctt      240
Ile Ser Ile Leu Ala Val Asn Asp Leu Gly Met Ser Leu Ser Thr Leu
65     70     75

ccc acc atg ctt gct gtg tta tgg ttg gat gct cca gag atc cag gca      288
Pro Thr Met Leu Ala Val Leu Trp Leu Asp Ala Pro Glu Ile Gln Ala
85     90     95

agt gct tgc tat gct cag ctg ttc ttc atc ccc aca ttc aca ttc ctg      336
Ser Ala Cys Tyr Ala Gln Leu Phe Phe Ile His Thr Phe Thr Phe Leu
100    105    110

gag tcc tca gtg ttg ctg gcc atg gcc ttt gac cgt ttt gtt gct atc      384
Glu Ser Ser Val Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile
115    120    125

tgc cat cca ctg cac tac ccc acc atc ctc acc aac agt gta att ggc      432
Cys His Pro Leu His Tyr Pro Thr Ile Leu Thr Asn Ser Val Ile Gly
130    135    140

aaa att ggt ttg gcc tgt ttg cta cga agc ttg gga gtt gta ctt ccc      480
Lys Ile Gly Leu Ala Cys Leu Leu Arg Ser Leu Gly Val Val Leu Pro
145    150    155    160

aca cct ttg cta ctg aga cac tat cac tac tgc cat ggc aat gcc ctc      528
Thr Pro Leu Leu Arg His Tyr His Tyr Cys His Gly Asn Ala Leu
165    170    175

tct cac gcc ttc tgt ttg cac cag gat gtt cta aga tta tcc tgt aca      576
Ser His Ala Phe Cys Leu His Gln Asp Val Leu Arg Leu Ser Cys Thr
180    185    190

gat gcc agg acc aac agt att tat ggg ctt tgt gta gtc att gcc aca      624
Asp Ala Arg Thr Asn Ser Ile Tyr Gly Leu Cys Val Val Ile Ala Thr
195    200    205

cta ggt gtg gat tca atc ttc ata ctt ctt tct tat gtt ctg att ctt      672
Leu Gly Val Asp Ser Ile Phe Ile Leu Leu Ser Tyr Val Leu Ile Leu
210    215    220

aat act gtg ctg gat att gca tct cgt gaa gag cag cta aag gca ctc      720
Asn Thr Val Leu Asp Ile Ala Ser Arg Glu Glu Gln Leu Lys Ala Leu
225    230    235    240

aac aca tgt gta tcc cat atc tgt gtg gtg ctt atc ttc ttt gtg cca      768

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WO 02/24726

PCT/BE01/00162

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Asn Thr Cys Val Ser His Ile Cys Val Val Leu Ile Phe Phe Val Pro
      245              250              255

gtt att ggg gtg tca atg gtc cat cgc ttt ggg aag cat ctg tct ccc      816
Val Ile Gly Val Ser Met Val His Arg Phe Gly Lys His Leu Ser Pro
      260              265              270

ata gtc cac atc ctc atg gca gac atc tac ctt ctt ctt ccc cca gtc      864
Ile Val His Ile Leu Met Ala Asp Ile Tyr Leu Leu Leu Pro Pro Val
      275              280              285

ctt aac cct att gtc tat agt gtc aga aca aag cag att cgt cta gga      912
Leu Asn Pro Ile Val Tyr Ser Val Arg Thr Lys Gln Ile Arg Leu Gly
      290              295              300

att ctc cac aag ttt gtc cta agg agg agg ttt taa      948
Ile Leu His Lys Phe Val Leu Arg Arg Arg Phe
      305              310              315

<210> 438
<211> 315
<212> PPT
<213> Homo Sapiens

<400> 438

Met Gly Asp Trp Asn Asn Ser Asp Ala Val Glu Pro Ile Phe Ile Leu
 1              5              10              15

Arg Gly Phe Pro Gly Leu Glu Tyr Val His Ser Trp Leu Ser Ile Leu
 20              25              30

Phe Cys Leu Ala Tyr Leu Val Ala Phe Met Gly Asn Val Thr Ile Leu
 35              40              45

Ser Val Ile Trp Ile Glu Ser Ser Leu His Gln Pro Met Tyr Tyr Phe
 50              55              60

Ile Ser Ile Leu Ala Val Asn Asp Leu Gly Met Ser Leu Ser Thr Leu
 65              70              75              80

Pro Thr Met Leu Ala Val Leu Trp Leu Asp Ala Pro Glu Ile Gln Ala
 85              90              95

Ser Ala Cys Tyr Ala Gln Leu Phe Phe Ile His Thr Phe Thr Phe Leu
100              105              110

Glu Ser Ser Val Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile
115              120              125

Cys His Pro Leu His Tyr Pro Thr Ile Leu Thr Asn Ser Val Ile Gly
130              135              140

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WO 02/24726

PCT/BE01/00162

Lys Ile Gly Leu Ala Cys Leu Leu Arg Ser Leu Gly Val Val Leu Pro
145 150 155 160

Thr Pro Leu Leu Leu Arg His Tyr His Tyr Cys His Gly Asn Ala Leu
165 170 175

Ser His Ala Phe Cys Leu His Gln Asp Val Leu Arg Leu Ser Cys Thr
180 185 190

Asp Ala Arg Thr Asn Ser Ile Tyr Gly Leu Cys Val Val Ile Ala Thr
195 200 205

Leu Gly Val Asp Ser Ile Phe Ile Leu Leu Ser Tyr Val Leu Ile Leu
210 215 220

Asn Thr Val Leu Asp Ile Ala Ser Arg Glu Glu Gln Leu Lys Ala Leu
225 230 235 240

Asn Thr Cys Val Ser His Ile Cys Val Val Leu Ile Phe Phe Val Pro
245 250 255

Val Ile Gly Val Ser Met Val His Arg Phe Gly Lys His Leu Ser Pro
260 265 270

Ile Val His Ile Leu Met Ala Asp Ile Tyr Leu Leu Leu Pro Pro Val
275 280 285

Leu Asn Pro Ile Val Tyr Ser Val Arg Thr Lys Gln Ile Arg Leu Gly
290 295 300

Ile Leu His Lys Phe Val Leu Arg Arg Arg Phe
305 310 315

<210> 439
<211> 942
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> {1}..{939}
<223>

<400> 439
atg tcc att atc aac aca tca tat ggt gaa atc acc acc ttc ttc ttg 48
Met Ser Ile Ile Asn Thr Ser Tyr Val Glu Ile Thr Thr Phe Phe Leu
1 5 10 15

WO 02/24726

PCT/BE01/00162

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ggt ggg atg cca ggg cta gaa tat gca cac atc tgg atc tct atc ccc      96
Val Gly Met Pro Gly Leu Glu Tyr Ala His Ile Trp Ile Ser Ile Pro
      20      25      30

atc tgc agc atg tat ctt att gct att cta gga aat ggc acc att ctt      144
Ile Cys Ser Met Tyr Leu Ile Ala Ile Leu Gly Asn Gly Thr Ile Leu
      35      40      45

ttt atc atc aag aca gag ccc tcc ttg cat ggg ccc atg tac tat ttt      192
Phe Ile Ile Lys Thr Glu Pro Ser Leu His Gly Pro Met Tyr Tyr Phe
      50      55      60

ctt tcc atg ttg gct atg tca gac ttg ggt ttg tct tta toa tot ctg      240
Leu Ser Met Leu Ala Met Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
      65      70      75      80

ccc act gtg tta agc atc ttc ctg ttc aat gcc cct gaa act tct tct      288
Pro Thr Val Leu Ser Ile Phe Leu Phe Asn Ala Pro Glu Thr Ser Ser
      85      90      95

agt gcc tgc ttt gcc cag gaa ttc ttc att cat gga ttc tca gta ctg      336
Ser Ala Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Ser Val Leu
      100      105      110

gag tcc tca gtc ctg atc atg tca ttt gat aga ttc cta gcc atc      384
Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp Arg Phe Leu Ala Ile
      115      120      125

cac aat cct ctg aga tac acc tca atc ctg aca act gtc aga gtt gcc      432
His Asn Pro Leu Arg Tyr Thr Ser Ile Leu Thr Thr Val Arg Val Ala
      130      135      140

caa ata ggg ata gta ttc tcc ttt aag agc atg ctg ctg gtt ctt ccc      480
Gln Ile Gly Ile Val Phe Ser Phe Lys Ser Met Leu Leu Val Leu Pro
      145      150      155      160

ttc cct ttc act tta aga agc ttg aga tat tgc aag aaa aac caa tta      528
Phe Pro Phe Thr Leu Arg Ser Leu Arg Tyr Cys Lys Lys Asn Gln Leu
      165      170      175

tcc cat tcc tac tgt ctg cac cag gat gtc atg aag ttg gcc tgt tct      576
Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ser
      180      185      190

gag aac aga att gat gtt atc tat ggc ttt ttt gga gca ctg tgc ctt      624
Asp Asn Arg Ile Asp Val Ile Tyr Gly Phe Phe Gly Ala Leu Cys Leu
      195      200      205

atg gta gac ttt att ctg att gct gtg tct tac acc ctg atc ctg aag      672
Met Val Asp Phe Ile Leu Ile Ala Val Ser Tyr Thr Leu Ile Leu Lys
      210      215      220

act gta cgg gga att gca tcc aaa aag gag gag ctt aag gct ctg aat      720
Thr Val Pro Gly Ile Ala Ser Lys Lys Glu Glu Leu Lys Ala Leu Asn
      225      230      235      240

act tgt gct tca cac atc tgt gca gtg atc atc ttc tac ctg ccc atc      768
Thr Cys Val Ser His Ile Cys Ala Val Ile Ile Phe Tyr Leu Pro Ile
      245      250      255

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atc aac ctg gcc gtt gtc cac cgc ttt gcc ggg cat gtc tct ccc ctc 816
 Ile Asn Leu Ala Val Val His Arg Phe Ala Gly His Val Ser Pro Leu
 260 265 270

att aat gtt ctc atg gca aat gtt ctc cta ctt gta cct ccg ctg atg 864
 Ile Asn Val Leu Met Ala Asn Val Leu Leu Leu Val Pro Pro Leu Met
 275 280 285

aaa cca att gtt tat tgt gta aaa aat aaa cag att aga gtg aga gtt 912
 Lys Pro Ile Val Tyr Cys Val Lys Thr Lys Gln Ile Arg Val Arg Val
 290 295 300

gta gca aaa ttg tgt caa tgg aag att taa 942
 Val Ala Lys Leu Cys Gln Trp Lys Ile
 305 310

<210> 440

<211> 313

<212> PRT

<213> Homo Sapiens

<400> 440

Met Ser Ile Ile Asn Thr Ser Tyr Val Glu Ile Thr Thr Phe Phe Leu
 1 5 10 15

Val Gly Met Pro Gly Leu Glu Tyr Ala His Ile Trp Ile Ser Ile Pro
 20 25 30

Ile Cys Ser Met Tyr Leu Ile Ala Ile Leu Gly Asn Gly Thr Ile Leu
 35 40 45

Phe Ile Ile Lys Thr Glu Pro Ser Leu His Gly Pro Met Tyr Tyr Phe
 50 55 60

Leu Ser Met Leu Ala Met Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
 65 70 75 80

Pro Thr Val Leu Ser Ile Phe Leu Phe Asn Ala Pro Glu Thr Ser Ser
 85 90 95

Ser Ala Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Ser Val Leu
 100 105 110

Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp Arg Phe Leu Ala Ile
 115 120 125

His Asn Pro Leu Arg Tyr Thr Ser Ile Leu Thr Thr Val Arg Val Ala
 130 135 140

Gln Ile Gly Ile Val Phe Ser Phe Lys Ser Met Leu Leu Val Leu Pro

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145 150 155 160
 Phe Pro Phe Thr Leu Arg Ser Leu Arg Tyr Cys Lys Lys Asn Gln Leu
 165 170 175
 Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ser
 180 185 190
 Asp Asn Arg Ile Asp Val Ile Tyr Gly Phe Phe Gly Ala Leu Cys Leu
 195 200 205
 Met Val Asp Phe Ile Leu Ile Ala Val Ser Tyr Thr Leu Ile Leu Lys
 210 215 220
 Thr Val Pro Gly Ile Ala Ser Lys Lys Glu Glu Leu Lys Ala Leu Asn
 225 230 235 240
 Thr Cys Val Ser His Ile Cys Ala Val Ile Ile Phe Tyr Leu Pro Ile
 245 250 255
 Ile Asn Leu Ala Val Val His Arg Phe Ala Gly His Val Ser Pro Leu
 260 265 270
 Ile Asn Val Leu Met Ala Asn Val Leu Leu Leu Val Pro Pro Leu Met
 275 280 285
 Lys Pro Ile Val Tyr Cys Val Lys Thr Lys Glu Ile Arg Val Arg Val
 290 295 300
 Val Ala Lys Leu Cys Gln Trp Lys Ile
 305 310

<210> 441
 <211> 1029
 <212> DNA
 <213> Homo Sapiens

 <220>
 <221> CDS
 <222> (1)..(1026)
 <223>

<400> 441
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 Met Thr Glu Thr Ser Leu Ser Ser Gln Cys Phe Pro Met Ser Val Leu
 5 10 15
 aat aat acc att gct gag cct ctg atc ttc ctc ctg atg ggc att cca 96
 Asn Asn Thr Ile Ala Glu Pro Leu Ile Phe Leu Leu Met Gly Ile Pro

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PCT/BE01/00162

	20	25	30	
ggc ctg aaa gcc acc cag tac tgg atc tcc atc cct ttt tgt ctc cta				144
Gly Leu Lys Ala Thr Gln Tyr Trp Ile Ser Ile Pro Phe Cys Leu Leu				
35 40 45				
tat gtt gtt gcc gtc tct gga aat agc atg atc ctg ttt gtg gtc ctc				192
Tyr Val Val Ala Val Ser Gly Asn Ser Met Ile Leu Phe Val Val Leu				
50 55 60				
tgt gaa cgg agc ctc cat aag cct atg tac tat ttc ctc tct atg ctt				240
Cys Glu Arg Ser Leu His Lys Pro Met Tyr Tyr Phe Leu Ser Met Leu				
65 70 75 80				
tca gcc aca gac ctg agc ttg tcc ctg tgt aca ctt tct act acc ctt				288
Ser Ala Thr Asp Leu Ser Leu Ser Leu Cys Thr Leu Ser Thr Thr Leu				
85 90 95				
ggg gtc ttc tgg ttt gaa gcc cga gaa atc aac cta aat gcc tgc att				336
Gly Val Phe Trp Phe Glu Ala Arg Glu Ile Asn Leu Asn Ala Cys Ile				
100 105 110				
gcc cag atg ttc ttt cta cac gga ttt act ttc atg gag tct ggg gtt				384
Ala Gln Met Phe Phe Leu His Gly Phe Thr Phe Met Glu Ser Gly Val				
115 120 125				
cta ctg gcc atg gcc ttt gat cgt ttt gtg gcc atc tgt tac cca ctg				432
Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile Cys Tyr Pro Leu				
130 135 140				
aga tac act acc atc ctt acc aat gcc cga att gcc aag att ggg atg				480
Arg Tyr Thr Thr Ile Leu Thr Asn Ala Arg Ile Ala Lys Ile Gly Met				
145 150 155 160				
agc atg ttg ata aga aat gtt gcc gtc atg ttg cca gtc atg ctc ttt				528
Ser Met Leu Ile Arg Asn Val Ala Val Met Leu Pro Val Met Leu Phe				
165 170 175				
gtc aag agg ttg tcc ttc tgc agt tct atg gtc ctt tca cat tct tac				576
Val Lys Arg Leu Ser Phe Cys Ser Ser Met Val Leu Ser His Ser Tyr				
180 185 190				
tgc tac cat gtt gat ctc atc caa ctc tcc tgc aca gac aat agg atc				624
Cys Tyr His Val Asp Leu Ile Gln Leu Ser Cys Thr Asp Asn Arg Ile				
195 200 205				
aac agc atc ctt ggt ctg ttt gcg ctt ttg tcc act aca ggg ttt gac				672
Asn Ser Ile Leu Gly Leu Phe Ala Leu Leu Ser Thr Thr Gly Phe Asp				
210 215 220				
tgc cct tgc atc ctg ctc tcc tat atc ctg atc att cga tct gtc ctc				720
Cys Pro Cys Ile Leu Leu Ser Tyr Ile Leu Ile Ile Arg Ser Val Leu				
225 230 235 240				
agc att gct tcc tca gaa gag agg cgg aaa gcc ttc aac acc tgc aca				768
Ser Ile Ala Ser Ser Glu Glu Arg Arg Lys Ala Phe Asn Thr Cys Thr				
245 250 255				
tcc cac atc agt gct gtt tcc atc ttc tac ctc cct ctc atc agt ttg				816
Ser His Ile Ser Ala Val Ser Ile Phe Tyr Leu Pro Leu Ile Ser Leu				
260 265 270				

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tct ctt gtc cat cgc tat ggc cat tca gca cct cca ttt gtc cac atc      864
Ser Leu Val His Arg Tyr Gly His Ser Ala Pro Pro Phe Val His Ile
      275              280              285

atc atg gcc aat gtc ttt ctg cta atc cct cct gtg ctc aac cct att      912
Ile Met Ala Asn Val Phe Leu Leu Ile Pro Pro Val Leu Asn Pro Ile
      290              295              300

att tac agt gta aag att aag cag att caa aag gcc att atc aag gtc      960
Ile Tyr Ser Val Lys Ile Lys Gln Ile Gln Lys Ala Ile Ile Lys Val
      305              310              315              320

tta att cag aag cac tcc aaa tct aat cat cag cta ttt ctg att aga      1008
Leu Ile Gln Lys His Ser Lys Ser Asn His Gln Leu Phe Leu Ile Arg
      325              330              335

gat aaa gcc att tat gaa tan      1029
Asp Lys Ala Ile Tyr Glu
      340

<210> 442
<211> 342
<212> PRT
<213> Homo Sapiens

<400> 442

Met Thr Glu Thr Ser Leu Ser Ser Gln Cys Phe Pro Met Ser Val Leu
1          5          10          15

Asn Asn Thr Ile Ala Glu Pro Leu Ile Phe Leu Leu Met Gly Ile Pro
20          25          30

Gly Leu Lys Ala Thr Gln Tyr Trp Ile Ser Ile Pro Phe Cys Leu Leu
35          40          45

Tyr Val Val Ala Val Ser Gly Asn Ser Met Ile Leu Phe Val Val Leu
50          55          60

Cys Glu Arg Ser Leu His Lys Pro Met Tyr Tyr Phe Leu Ser Met Leu
65          70          75          80

Ser Ala Thr Asp Leu Ser Leu Ser Leu Cys Thr Leu Ser Thr Thr Leu
85          90          95

Gly Val Phe Trp Phe Glu Ala Arg Glu Ile Asn Leu Asn Ala Cys Ile
100         105         110

Ala Gln Met Phe Phe Leu His Gly Phe Thr Phe Met Glu Ser Gly Val
115         120         125

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PCT/BE01/00162

Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile Cys Tyr Pro Leu
 130 135 140
 Arg Tyr Thr Thr Ile Leu Thr Asn Ala Arg Ile Ala Lys Ile Gly Met
 145 150 155 160
 Ser Met Leu Ile Arg Asn Val Ala Val Met Leu Pro Val Met Leu Phe
 165 170 175
 Val Lys Arg Leu Ser Phe Cys Ser Ser Met Val Leu Ser His Ser Tyr
 180 185 190
 Cys Tyr His Val Asp Leu Ile Gln Leu Ser Cys Thr Asp Asn Arg Ile
 195 200 205
 Asn Ser Ile Leu Gly Leu Phe Ala Leu Leu Ser Thr Thr Gly Phe Asp
 210 215 220
 Cys Pro Cys Ile Leu Leu Ser Tyr Ile Leu Ile Ile Arg Ser Val Leu
 225 230 235 240
 Ser Ile Ala Ser Ser Glu Glu Arg Arg Lys Ala Phe Asn Thr Cys Thr
 245 250 255
 Ser His Ile Ser Ala Val Ser Ile Phe Tyr Leu Pro Leu Ile Ser Leu
 260 265 270
 Ser Leu Val His Arg Tyr Gly His Ser Ala Pro Pro Phe Val His Ile
 275 280 285
 Ile Met Ala Asn Val Phe Leu Leu Ile Pro Pro Val Leu Asn Pro Ile
 290 295 300
 Ile Tyr Ser Val Lys Ile Lys Gln Ile Gln Lys Ala Ile Ile Lys Val
 305 310 315 320
 Leu Ile Gln Lys His Ser Lys Ser Asn His Gln Leu Phe Leu Ile Arg
 325 330 335
 Asp Lys Ala Ile Tyr Glu
 340

<210> 443
 <211> 957
 <212> DNA
 <213> Homo Sapiens

WO 02/24726

PCT/BE01/00162

<220>
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 <222> (1) .. (954)
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<400> 443
atg gac aag ata aac cag aca ttt gbg aga gaa ttc att ctt ctg gga      43
Met Asp Lys Ile Asn Gln Thr Phe Val Arg Glu Phe Ile Leu Leu Gly
1      5      10      15

ctc tct ggt tac ccc aaa ctt gag atc att ttc ttt gct ctg att cta      96
Leu Ser Gly Tyr Pro Lys Leu Glu Ile Ile Phe Phe Ala Leu Ile Leu
20      25      30

gtt atg tac gta gtg att cta att ggc aat ggt gtt ctg atc ata gca      144
Val Met Tyr Val Val Ile Leu Ile Gly Asn Gly Val Leu Ile Ile Ala
35      40      45

agc atc ttg gat tct cgt ctt cac atg ccc atg tac ttc ttc ctg ggc      192
Ser Ile Leu Asp Ser Arg Leu His Met Pro Met Tyr Phe Phe Leu Gly
50      55      60

aac ctg tct ttc ctg gat atc tgc tat aca acc tcc tcc att ccc tca      240
Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ser Ile Pro Ser
65      70      75      80

aca ctg gtg agc tta atc tca aag aaa aga aac att tcc ttc tct gga      288
Thr Leu Val Ser Leu Ile Ser Lys Lys Arg Asn Ile Ser Phe Ser Gly
85      90      95

tgt gca gtg cag atg ttc ttt ggg ttt gca atg ggg tca aca gaa tgt      336
Cys Ala Val Gln Met Phe Phe Gly Phe Ala Met Gly Ser Thr Glu Cys
100      105      110

ttc ctg ctt ggc atg atg gca ttt gat cgt tat gtg gcc atc tgt aac      384
Phe Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
115      120      125

cct ctg aga tac ccc atc atc atg aac aag gtg gtg tat gta ctg ctg      432
Pro Leu Arg Tyr Pro Ile Ile Met Asn Lys Val Val Tyr Val Leu Leu
130      135      140

act tct gta tca tgg ctt tct ggt gga atc aat tca aat gtg caa aca      480
Thr Ser Val Ser Trp Leu Ser Gly Gly Ile Asn Ser Thr Val Gln Thr
145      150      155      160

tca ctt gcc atg cga tgg cct ttc tgt ggg aac aat att att aat cat      528
Ser Leu Ala Met Arg Trp Pro Phe Cys Gly Asn Asn Ile Ile Asn His
165      170      175

ttc tta tgc gag atc tta gct gtc cta aaa tta gct tgt tct gat ata      576
Phe Leu Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ser Asp Ile
180      185      190

tct gtc aat att gtt acc cta gca gtg tca aat att gct ttc cta gtt      624
Ser Val Asn Ile Val Thr Leu Ala Val Ser Asn Ile Ala Phe Leu Val
195      200      205

ctt cct ctg ctg gtg att ttt ttc tcc tat atg ttc atc ctg tac acc      672
Leu Pro Leu Leu Val Ile Phe Phe Ser Tyr Met Phe Ile Leu Tyr Thr

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PCT/BE01/00162

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210          215          220
atc ttg cga acg aac tgc gcc aca gga aga cac aag gca ttt tct aca 720
Ile Leu Arg Thr Asn Ser Ala Thr Gly Arg His Lys Ala Phe Ser Thr
225          230          235          240
tgc tca gct cac ctg act gtg gtg atc ata ttt tat ggt acc atc ttc 768
Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Phe
245          250          255
ttt atg tat gca aaa cct aag tcc cag gac ctc ctt ggg aaa gac aac 816
Phe Met Tyr Ala Lys Pro Lys Ser Gln Asp Leu Leu Gly Lys Asp Asn
260          265          270
ttg caa gct aca gag ggg ctt gtt tcc atg ttt tat ggg gtt gtg acc 864
Leu Gln Ala Thr Glu Gly Leu Val Ser Met Phe Tyr Gly Val Val Thr
275          280          285
ccc atg tta aac ccc ata atc tat agc ttg aga aat aaa gat gta aaa 912
Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
290          295          300
gct gct ata aaa tat ttg ctg agc agg aaa gct att aac cag taa 957
Ala Ala Ile Lys Tyr Leu Leu Ser Arg Lys Ala Ile Asn Gln
305          310          315

<210> 444
<211> 318
<212> PPT
<213> Homo Sapiens

<400> 444
Met Asp Lys Ile Asn Gln Thr Phe Val Arg Glu Phe Ile Leu Leu Gly
1          5          10          15
Leu Ser Gly Tyr Pro Lys Leu Glu Ile Ile Phe Phe Ala Leu Ile Leu
20          25          30
Val Met Tyr Val Val Ile Leu Ile Gly Asn Gly Val Leu Ile Ile Ala
35          40          45
Ser Ile Leu Asp Ser Arg Leu His Met Pro Met Tyr Phe Phe Leu Gly
50          55          60
Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ser Ile Pro Ser
65          70          75          80
Thr Leu Val Ser Leu Ile Ser Lys Lys Arg Asn Ile Ser Phe Ser Gly
85          90          95
Cys Ala Val Gln Met Phe Phe Gly Phe Ala Met Gly Ser Thr Glu Cys
100          105          110

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PCT/BE01/00162

Phe Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125

Pro Leu Arg Tyr Pro Ile Ile Met Asn Lys Val Val Tyr Val Leu Leu
 130 135 140

Thr Ser Val Ser Trp Leu Ser Gly Gly Ile Asn Ser Thr Val Gln Thr
 145 150 155 160

Ser Leu Ala Met Arg Trp Pro Phe Cys Gly Asn Asn Ile Ile Asn His
 165 170 175

Phe Leu Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ser Asp Ile
 180 185 190

Ser Val Asn Ile Val Thr Leu Ala Val Ser Asn Ile Ala Phe Leu Val
 195 200 205

Leu Pro Leu Leu Val Ile Phe Phe Ser Tyr Met Phe Ile Leu Tyr Thr
 210 215 220

Ile Leu Arg Thr Asn Ser Ala Thr Gly Arg His Lys Ala Phe Ser Thr
 225 230 235 240

Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Phe
 245 250 255

Phe Met Tyr Ala Lys Pro Lys Ser Gln Asp Leu Leu Gly Lys Asp Asn
 260 265 270

Leu Gln Ala Thr Glu Gly Leu Val Ser Met Phe Tyr Gly Val Val Thr
 275 280 285

Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
 290 295 300

Ala Ala Ile Lys Tyr Leu Leu Ser Arg Lys Ala Ile Asn Gln
 305 310 315

<210> 445
 <211> 948
 <212> DNA
 <213> Homo Sapiens

<220>
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 <222> (1) .. (948)

WO 02/24726

PCT/BE01/00162

<223>

<400> 445

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atg gtg ctg gct tca ggg aac agc tct tct cat cct gtg tcc ttc atc      48
Met Val Leu Ala Ser Gly Asn Ser Ser Ser His Pro Val Ser Phe Ile
1      5      10      15

ctg ctt gga atc cca ggc ctg gag agt ttc cag ttg tgg att gcc ttt      96
Leu Leu Gly Ile Pro Gly Leu Glu Ser Phe Gln Leu Trp Ile Ala Phe
20     25     30

cag ttc tgt gcc acg tat gct gtg gct gtt gtt gga aat atc act ctc      144
Pro Phe Cys Ala Thr Tyr Ala Val Ala Val Val Gly Asn Ile Thr Leu
35     40     45

ctc cat gta atc aga att gac cac acc ctg cat gag ccc atg tac ctc      192
Leu His Val Ile Arg Ile Asp His Thr Leu His Glu Pro Met Tyr Leu
50     55     60

ttt ctg gcc atg ctg gcc atc act gac ctg gtc ctc tcc tcc tcc act      240
Phe Leu Ala Met Leu Ala Ile Thr Asp Leu Val Leu Ser Ser Ser Thr
65     70     75     80

caa cct aag atg ttg gcc ata ttc tgg ttt cat gct cat gag att cag      288
Gln Pro Lys Met Leu Ala Ile Phe Trp Phe His Ala His Glu Ile Gln
85     90     95

tac cat gcc tgc ctc atc cag gtg ttc ttc atc cat gcc ttt tct tct      336
Tyr His Ala Cys Leu Ile Gln Val Phe Phe Ile His Ala Phe Ser Ser
100    105    110

gtg gag tct ggg gtg ctc atg gct atg gcc ctg gac tgc tac gtg gct      384
Val Glu Ser Gly Val Leu Met Ala Met Ala Leu Asp Cys Tyr Val Ala
115    120    125

acc tgc ttc cca ctc cga cac tct agc atc ctg acc cca tgc gtc gtg      432
Thr Cys Phe Pro Leu Arg His Ser Ser Ile Leu Thr Pro Ser Val Val
130    135    140

atc aaa ctg ggg acc atc gtg atg ctg aga ggg ctg ctg tgg gtg agc      480
Ile Lys Leu Gly Thr Ile Val Met Leu Arg Gly Leu Leu Trp Val Ser
145    150    155    160

ccc ttc tgc ttc atg gtg tct agg atg ccc ttc tgc caa cac caa gcc      528
Pro Phe Cys Phe Met Val Ser Arg Met Pro Phe Cys Gln His Gln Ala
165    170    175

att ccc cag tca tac tgt gag cac atg gct gtg ctg aag ttg gtg tgt      576
Ile Pro Gln Ser Tyr Cys Glu His Met Ala Val Leu Lys Leu Val Cys
180    185    190

gct gat aca agc ata agt cgt ggg tat ggg ctc ttt gtg gcc ttc tct      624
Ala Asp Thr Ser Ile Ser Arg Gly Tyr Gln Leu Phe Val Ala Phe Ser
195    200    205

gtg gct ggc ttt gat atg att gtc att ggt atg tca tac gtg atg att      672
Val Ala Gly Phe Asp Met Ile Val Ile Gly Met Ser Tyr Val Met Ile
210    215    220

ttg aga gct gtg ctt cag ttg ccc tca ggt gaa gcc cgc ctc aaa gct      720

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WO 02/24726

PCT/BE01/00162

Leu Arg Ala Val Leu Gln Leu Pro Ser Gly Glu Ala Arg Leu Lys Ala
 225 230 235 240
 ttt agc aca cgt gcc tcc cat atc tgt gtc atc ttg gct ctt tat atc 768
 Phe Ser Thr Arg Ala Ser His Ile Cys Val Ile Leu Ala Leu Tyr Ile
 245 250 255
 cca gcc ctt ttt tct ttc ctc acc tac cgc ttt gcc cat gat gtg ccc 816
 Pro Ala Leu Phe Ser Phe Leu Thr Tyr Arg Phe Gly His Asp Val Pro
 260 265 270
 cga gtt gta cao atc ctg ttt gct aat ctc tat cta ctg ata cct ccc 864
 Arg Val Val His Ile Leu Phe Ala Asn Leu Tyr Leu Ile Pro Pro
 275 280 285
 atg ctc aac ccc atc att tat gga gtt aga acc aaa cag atc ggg gac 912
 Met Leu Asn Pro Ile Ile Tyr Gly Val Arg Thr Lys Gln Ile Gly Asp
 290 295 300
 agg gtt atc caa gga tgt tgt gga aac atc ccc tga 948
 Arg Val Ile Gln Gly Cys Cys Gly Asn Ile Pro
 305 310 315

<210> 446
 <211> 315
 <212> PRT
 <213> Homo Sapiens
 <400> 446

Met Val Leu Ala Ser Gly Asn Ser Ser Ser His Pro Val Ser Phe Ile
 1 5 10 15
 Leu Leu Gly Ile Pro Gly Leu Glu Ser Phe Gln Leu Trp Ile Ala Phe
 20 25 30
 Pro Phe Cys Ala Thr Tyr Ala Val Ala Val Val Gly Asn Ile Thr Leu
 35 40 45
 Leu His Val Ile Arg Ile Asp His Thr Leu His Glu Pro Met Tyr Leu
 50 55 60
 Phe Leu Ala Met Leu Ala Ile Thr Asp Leu Val Leu Ser Ser Ser Thr
 65 70 75 80
 Gln Pro Lys Met Leu Ala Ile Phe Trp Phe His Ala His Glu Ile Gln
 85 90 95
 Tyr His Ala Cys Leu Ile Gln Val Phe Phe Ile His Ala Phe Ser Ser
 100 105 110
 Val Glu Ser Gly Val Leu Met Ala Met Ala Leu Asp Cys Tyr Val Ala
 115 120 125

WO 02/24726

PCT/BE01/00162

Thr Cys Phe Pro Leu Arg His Ser Ser Ile Leu Thr Pro Ser Val Val
 130 135 140

Ile Lys Leu Gly Thr Ile Val Met Leu Arg Gly Leu Leu Trp Val Ser
 145 150 155 160

Pro Phe Cys Phe Met Val Ser Arg Met Pro Phe Cys Gln His Gln Ala
 165 170 175

Ile Pro Gln Ser Tyr Cys Glu His Met Ala Val Leu Lys Leu Val Cys
 180 185 190

Ala Asp Thr Ser Ile Ser Arg Gly Tyr Gly Leu Phe Val Ala Phe Ser
 195 200 205

Val Ala Gly Phe Asp Met Ile Val Ile Gly Met Ser Tyr Val Met Ile
 210 215 220

Leu Arg Ala Val Leu Gln Leu Pro Ser Gly Glu Ala Arg Leu Lys Ala
 225 230 235 240

Phe Ser Thr Arg Ala Ser His Ile Cys Val Ile Leu Ala Leu Tyr Ile
 245 250 255

Pro Ala Leu Phe Ser Phe Leu Thr Tyr Arg Phe Gly His Asp Val Pro
 260 265 270

Arg Val Val His Ile Leu Phe Ala Asn Leu Tyr Leu Leu Ile Pro Pro
 275 280 285

Met Leu Asn Pro Ile Ile Tyr Gly Val Arg Thr Lys Gln Ile Gly Asp
 290 295 300

Arg Val Ile Gln Gly Cys Cys Gly Asn Ile Pro
 305 310 315

<210> 447
 <211> 945
 <212> DNA
 <213> Homo Sapiens

<220>
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 <222> (1)..(942)
 <223>

WO 02/24726

PCT/BE01/00162

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<400> 447
atg acc ctg gga tcc ctg gga aac agc agc agc agc gtt tct gct acc 48
Met Thr Leu Gly Ser Leu Gly Asn Ser Ser Ser Val Ser Ala Thr
1 5 10 15

ttc ctg ctg agt ggc atc cct ggg ctg gag cgc atg cac atc tgg atc 96
Phe Leu Leu Ser Gly Ile Pro Gly Leu Glu Arg Met His Ile Trp Ile
20 25 30

tcc atc cca ctg tgc ttc atg tat ctg gtt tcc atc ccc ggc aac tgc 144
Ser Ile Pro Leu Cys Phe Met Tyr Leu Val Ser Ile Pro Gly Asn Cys
35 40 45

aca att ctt ttt atc att aaa aca gag cgc tca ctt cat gaa cct atg 192
Thr Ile Leu Phe Ile Ile Lys Thr Glu Arg Ser Leu His Glu Pro Met
50 55 60

tat ctg ttc ctg tcc atg ctg gct ctg att gac ctg ggt ctc tcc ctt 240
Tyr Leu Phe Leu Ser Met Leu Ala Leu Ile Asp Leu Gly Leu Ser Leu
65 70 75 80

tgc act ctg cct aca gtc ctg ggc atc ttt tgg gtt gga gca cga gaa 288
Cys Thr Leu Pro Thr Val Leu Gly Ile Phe Trp Val Gly Ala Arg Glu
85 90 95

att agc cat gat gcc tgc ttt gct cag ctg ttt ttc att cac tgc ttc 336
Ile Ser His Asp Ala Cys Phe Ala Gln Leu Phe Phe Ile His Cys Phe
100 105 110

tcc ttc ctg gag tcc tct gtg cta ctg tct atg gcc ttt gac cgc ttt 384
Ser Phe Leu Glu Ser Ser Val Leu Leu Ser Met Ala Phe Asp Arg Phe
115 120 125

gtg gct atc tgc cac ccc ctg cac tat gtt tcc att ctg acc aac aca 432
Val Ala Ile Cys His Pro Leu His Tyr Val Ser Ile Leu Thr Asn Thr
130 135 140

gtc att ggc agg att ggc ctg gtc tct ctg ggt cgt agt gta gca ctg 480
Val Ile Gly Arg Ile Gly Leu Val Ser Leu Gly Arg Ser Val Ala Leu
145 150 155 160

att ttt cca tta cct ttt atg ctg aaa aga ttc ccc tat tgt ggc tcc 528
Ile Phe Pro Leu Pro Phe Met Leu Lys Arg Phe Pro Tyr Cys Gly Ser
165 170 175

cca gtt ctg tca cat tct tat tgt ctg cac caa gaa gtg atg aaa ttg 576
Pro Val Leu Ser His Ser Tyr Cys Leu His Gln Glu Val Met Lys Leu
180 185 190

gcc tgt gcc gac atg aag gcc aac agc atc tac gcc atg ttt gtc atc 624
Ala Cys Ala Asp Met Lys Ala Asn Ser Ile Tyr Gly Met Phe Val Ile
195 200 205

gtc tct aca gtg ggt ata gac tca ctg ctg atc ctg ttc tct tat gct 672
Val Ser Thr Val Gly Ile Asp Ser Leu Leu Ile Leu Phe Ser Tyr Ala
210 215 220

ctg atc ctg cgc acc gtg ctg tcc atc gcc tcc agg gct gag aga ttc 720
Leu Ile Leu Arg Thr Val Leu Ser Ile Ala Ser Arg Ala Glu Arg Phe
225 230 235 240

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aag gcc ctt aac acc tgt gtt tcc cac atc tgt gct gtg ctg ctg ttc      768
lys ala leu asn thr cys val ser his ile cys ala val leu leu phe
      245                      250                      255

tac act ccc atg att ggc ctc tct gtc atc cat cgc ttt gga aag cag      816
tyr thr pro met ile gly leu ser val ile his arg phe gly lys gln
      260                      265                      270

gca ccc cac ctg gtc cag gtg gtc atg ggt ttc atg tat ctt ctg ttt      864
ala pro his leu val gln val val met gly phe met tyr leu leu phe
      275                      280                      285

cct cct gtg atg aat ccc att gtc tac agt gtg aag acc aaa cag atc      912
pro pro val met asn pro ile val tyr ser val lys thr lys gln ile
      290                      295                      300

cgg gat cga gtg acg cat gcc ttt tgt tac taa      945
arg asp arg val thr his ala phe cys tyr
      305                      310

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<210> 448

<211> 314

<212> PRT

<213> Homo Sapiens

<400> 448

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Met Thr Leu Gly Ser Leu Gly Asn Ser Ser Ser Ser Val Ser Ala Thr
1                      5                      10                      15

Phe Leu Leu Ser Gly Ile Pro Gly Leu Glu Arg Met His Ile Trp Ile
      20                      25                      30

Ser Ile Pro Leu Cys Phe Met Tyr Leu Val Ser Ile Pro Gly Asn Cys
      35                      40                      45

Thr Ile Leu Phe Ile Ile Lys Thr Glu Arg Ser Leu His Glu Pro Met
      50                      55                      60

Tyr Leu Phe Leu Ser Met Leu Ala Leu Ile Asp Leu Gly Leu Ser Leu
      65                      70                      75                      80

Cys Thr Leu Pro Thr Val Leu Gly Ile Phe Trp Val Gly Ala Arg Glu
      85                      90                      95

Ile Ser His Asp Ala Cys Phe Ala Gln Leu Phe Phe Ile His Cys Phe
      100                      105                      110

Ser Phe Leu Glu Ser Ser Val Leu Leu Ser Met Ala Phe Asp Arg Phe
      115                      120                      125

Val Ala Ile Cys His Pro Leu His Tyr Val Ser Ile Leu Thr Asn Thr

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130          135          140
Val Ile Gly Arg Ile Gly Leu Val Ser Leu Gly Arg Ser Val Ala Leu
145          150          155          160
Ile Phe Pro Leu Pro Phe Met Leu Lys Arg Phe Pro Tyr Cys Gly Ser
165          170          175
Pro Val Leu Ser His Ser Tyr Cys Leu His Gln Glu Val Met Lys Leu
180          185          190
Ala Cys Ala Asp Met Lys Ala Asn Ser Ile Tyr Gly Met Phe Val Ile
195          200          205
Val Ser Thr Val Gly Ile Asp Ser Leu Leu Ile Leu Phe Ser Tyr Ala
210          215          220
Leu Ile Leu Arg Thr Val Leu Ser Ile Ala Ser Arg Ala Glu Arg Phe
225          230          235          240
Lys Ala Leu Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Leu Phe
245          250          255
Tyr Thr Pro Met Ile Gly Leu Ser Val Ile His Arg Phe Gly Lys Gln
260          265          270
Ala Pro His Leu Val Gln Val Val Met Gly Phe Met Tyr Leu Leu Phe
275          280          285
Pro Pro Val Met Asn Pro Ile Val Tyr Ser Val Lys Thr Lys Gln Ile
290          295          300
Arg Asp Arg Val Thr His Ala Phe Cys Tyr
305          310

<210> 449
<211> 942
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(939)
<223>

<400> 449
atg tcc att atc aac aca tca tat gtt gaa atc acc acc ttc ttc ttg      48
Met Ser Ile Ile Asn Thr Ser Tyr Val Glu Ile Thr Thr Phe Phe Leu

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1	5	10	15	
ggt ggg atg coa ggg cta gaa tat gca cac atc tgg atc tct atc ccc				96
Val Gly Met Pro Gly Leu Glu Tyr		Ala His Ile Trp Ile Ser Ile Pro		
20		25	30	
atc tgc agc atg tat ctt att gct att cta gga aat tgc acc att ctt				144
Ile Cys Ser Met Tyr Leu Ile Ala Ile Leu Gly Asn Cys Thr Ile Leu				
35		40	45	
ttt atc atc aag aca gag ccc tcc ttg cat gag ccc atg tac tat ttt				192
Phe Ile Ile Lys Thr Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe				
50		55	60	
ctt tcc atg ttg gct atg tca gac ttg ggt ttg tct tta tca tct ctg				240
Leu Ser Met Leu Ala Met Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu				
65		70	75	80
ccc act gtg tta agc atc ttc ctg ttc aat gct cct gaa att tca tcc				288
Pro Thr Val Leu Ser Ile Phe Leu Phe Asn Ala Pro Glu Ile Ser Ser				
85		90	95	
aat gcc tgc ttt gcc cag gaa ttc ttc att cat gga ttc tca gta ctg				336
Asn Ala Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Ser Val Leu				
100		105	110	
gag tcc tca gtc ctc ctg atc atg tca ttt gat aga ttc cta gcc atc				384
Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp Arg Phe Leu Ala Ile				
115		120	125	
cac aac cct ctg aga tac acc tca atc ctg aca act gtc aga gtt gcc				432
His Asn Pro Leu Arg Tyr Thr Ser Ile Leu Thr Thr Val Arg Val Ala				
130		135	140	
caa ata ggg ata gta ttc tcc ttt aag agc atg ctc ctg gtt ctt ccc				480
Gln Ile Gly Ile Val Phe Ser Phe Lys Ser Met Leu Leu Val Leu Pro				
145		150	155	160
ttc cct ttc act tta aga aac ttg aga tat tgc aag aaa aac caa tta				528
Phe Pro Phe Thr Leu Arg Asn Leu Arg Tyr Cys Lys Lys Asn Gln Leu				
165		170	175	
tcc cat tcc tac tgt ctc cac cag gat gtc atg aag ttg gcc tgt tct				576
Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ser				
180		185	190	
gac aac aga att gat gtt atc tat gcc ttt ttt gga gca ctc tgc ctt				624
Asp Asn Arg Ile Asp Val Ile Tyr Gly Phe Phe Gly Ala Leu Cys Leu				
195		200	205	
atg gta gac ttt att ctc att gct gtg tct tac acc ctg atc ctc aag				672
Met Val Asp Phe Ile Leu Ile Ala Val Ser Tyr Thr Leu Ile Leu Lys				
210		215	220	
act gta cgg gga att gca tcc aaa aag gag cag ctt aag gct ctc aat				720
Thr Val Pro Gly Ile Ala Ser Lys Lys Glu Gln Leu Lys Ala Leu Asn				
225		230	235	240
act tgt gtt tca cac atc tgt gca gtg atc atc ttc tac ctg ccc atc				768
Thr Cys Val Ser His Ile Cys Ala Val Ile Ile Phe Tyr Leu Pro Ile				
245		250	255	

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atc aac ctg gcc gtt gtc cac cgc ttt gcc cgg cat gtc tct ccc ctc      816
Ile Asn Leu Ala Val Val His Arg Phe Ala Arg His Val Ser Pro Leu
      260      265      270

att aat gtt ctg atg gca aat gtt ctg cta ctt gta cct cca ctg atg      864
Ile Asn Val Leu Met Ala Asn Val Leu Leu Leu Val Pro Pro Leu Met
      275      280      285

aac cca att gtt tat tgt gta aaa act aaa cag att aga gtg aga gtt      912
Asn Pro Ile Val Tyr Cys Val Lys Thr Lys Gln Ile Arg Val Arg Val
      290      295      300

gta gca aaa ttg tgt cca cgg aag att taa      942
Val Ala Lys Leu Cys Gln Arg Lys Ile
      305      310

<210> 450
<211> 313
<212> PRT
<213> Homo Sapiens

<400> 450

Met Ser Ile Ile Asn Thr Ser Tyr Val Glu Ile Thr Thr Phe Leu
1      5      10      15

Val Gly Met Pro Gly Leu Glu Tyr Ala His Ile Trp Ile Ser Ile Pro
20      25      30

Ile Cys Ser Met Tyr Leu Ile Ala Ile Leu Gly Asn Cys Thr Ile Leu
35      40      45

Phe Ile Ile Lys Thr Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe
50      55      60

Leu Ser Met Leu Ala Met Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
65      70      75      80

Pro Thr Val Leu Ser Ile Phe Leu Phe Asn Ala Pro Glu Ile Ser Ser
85      90      95

Asn Ala Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Ser Val Leu
100      105      110

Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp Arg Phe Leu Ala Ile
115      120      125

His Asn Pro Leu Arg Tyr Thr Ser Ile Leu Thr Thr Val Arg Val Ala
130      135      140

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PCT/BE01/00162

Gln Ile Gly Ile Val Phe Ser Phe Lys Ser Met Leu Leu Val Leu Pro
 145 150 155 160

Phe Pro Phe Thr Leu Arg Asn Leu Arg Tyr Cys Lys Lys Asn Gln Leu
 165 170 175

Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ser
 180 185 190

Asp Asn Arg Ile Asp Val Ile Tyr Gly Phe Phe Gly Ala Leu Cys Leu
 195 200 205

Met Val Asp Phe Ile Leu Ile Ala Val Ser Tyr Thr Leu Ile Leu Lys
 210 215 220

Thr Val Pro Gly Ile Ala Ser Lys Lys Glu Gln Leu Lys Ala Leu Asn
 225 230 235 240

Thr Cys Val Ser His Ile Cys Ala Val Ile Ile Phe Tyr Leu Pro Ile
 245 250 255

Ile Asn Leu Ala Val Val His Arg Phe Ala Arg His Val Ser Pro Leu
 260 265 270

Ile Asn Val Leu Met Ala Asn Val Leu Leu Leu Val Pro Pro Leu Met
 275 280 285

Asn Pro Ile Val Tyr Cys Val Lys Thr Lys Gln Ile Arg Val Arg Val
 290 295 300

Val Ala Lys Leu Cys Gln Arg Lys Ile
 305 310

<210> 451
 <211> 966
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(963)
 <223>

<400> 451
 atg aca att ctt ctt aat agc agc ctc caa aga gcc act ttc ttc ctg 48
 Met Thr Ile Leu Leu Asn Ser Ser Leu Gln Arg Ala Thr Phe Phe Leu
 1 5 10 15
 acg ggc ttc caa ggt cta gaa ggt ctc cat ggc tgg atc tct att ccc 96

WO 02/24726

PCT/BE01/00162

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Thr Gly Phe Gln Gly Leu Glu Gly Leu His Gly Trp Ile Ser Ile Pro
      20      25      30
ttc tgc ttc atc tac ctg aca gtt atc ttg ggg aac ctc acc att ctc      144
Phe Cys Phe Ile Tyr Leu Thr Val Ile Leu Gly Asn Leu Thr Ile Leu
      35      40      45
cac gtc att tgt act gat gcc act ctc cat gga ccc atg tac tat ttc      192
His Val Ile Cys Thr Asp Ala Thr Leu His Gly Pro Met Tyr Tyr Phe
      50      55      60
ttg ggc atg cta gct gtc aca gac tta ggc ctt tgc ctt tcc aca ctg      240
Leu Gly Met Leu Ala Val Thr Asp Leu Gly Leu Cys Leu Ser Thr Leu
      65      70      75      80
ccc act gtg ctg ggc att ttc tgg ttt gat acc aga gag att ggc atc      288
Pro Thr Val Leu Gly Ile Phe Trp Phe Asp Thr Arg Glu Ile Gly Ile
      85      90      95
cct gcc tgt ttc act cag ctc ttc ttc atc cac acc ttg tot tca atg      336
Pro Ala Cys Phe Thr Gln Leu Phe Phe Ile His Thr Leu Ser Ser Met
      100      105      110
gag tca tca gtt ctg tta tcc atg tcc att gac cgc tcc gtg gcc gtc      384
Glu Ser Ser Val Leu Leu Ser Met Ser Ile Asp Arg Ser Val Ala Val
      115      120      125
tgc aac cca ctg cat gac tcc acc gtc ctg aca cct gca tgt att gtc      432
Cys Asn Pro Leu His Asp Ser Thr Val Leu Thr Pro Ala Cys Ile Val
      130      135      140
aag atg ggg cta agc tca gtg ctt aga agt got ctc ctc atc ctc ccc      480
Lys Met Gly Leu Ser Ser Val Leu Arg Ser Ala Leu Leu Ile Leu Pro
      145      150      155      160
ttg cca ttc ctc ctg aag cgc ttc caa tac tgc cac tcc cat gtg ctg      528
Leu Pro Phe Leu Leu Lys Arg Phe Gln Tyr Cys His Ser His Val Leu
      165      170      175
got cat got tat tgt ctt cac ctg gag atc atg aag ctg gcc tgc tot      576
Ala His Ala Tyr Cys Leu His Leu Glu Ile Met Lys Leu Ala Cys Ser
      180      185      190
agc atc att gtc aat cac atc tat ggg ctc ttt gtt gtg gcc tgc acc      624
Ser Ile Ile Val Asn His Ile Tyr Gly Leu Phe Val Val Ala Cys Thr
      195      200      205
gtg ggt gtg gac tcc ctg ctc atc ttt ctc tca taa gcc ctc atc ctt      672
Val Gly Val Asp Ser Leu Leu Ile Phe Leu Ser Tyr Ala Leu Ile Leu
      210      215      220
cgc acc gtg ctc agc att gcc tcc cac cag gag cga ctc cga gcc ctc      720
Arg Thr Val Leu Ser Ile Ala Ser His Gln Glu Arg Leu Arg Ala Leu
      225      230      235      240
aac acc tgt gtc tct cat atc tgt got gta ctg ctc ttc tac atc ccc      768
Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Leu Phe Tyr Ile Pro
      245      250      255
atg att ggc ttg tct ctt gtg cat cgc ttt ggt gaa cat ctg ccc cgc      816
Met Ile Gly Leu Ser Leu Val His Arg Phe Gly Glu His Leu Pro Arg

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260 265 270

gtt gta cac ctc ttc atg tcc tat gtg tat ctg ctg gta cca ccc ctt 864
Val Val His Leu Phe Met Ser Tyr Val Tyr Leu Leu Val Pro Pro Leu
275 280 285

atg aac ccc atc atc tac agc atc aag acc aag caa att cgc cag cgc 912
Met Asn Pro Ile Ile Tyr Ser Ile Lys Thr Lys Gln Ile Arg Gln Arg
290 295 300

atc att aag aag ttt cag ttt ata aag tca ctt agc tgt ttt tgg aag 960
Ile Ile Lys Lys Phe Gln Phe Ile Lys Ser Leu Arg Cys Phe Trp Lys
305 310 315 320

gat taa 966
Asp

<210> 452
<211> 321
<212> PRT
<213> Homo Sapiens

<400> 452

Met Thr Ile Leu Leu Asn Ser Ser Leu Gln Arg Ala Thr Phe Phe Leu
1 5 10 15

Thr Gly Phe Gln Gly Leu Glu Gly Leu His Gly Trp Ile Ser Ile Pro
20 25 30

Phe Cys Phe Ile Tyr Leu Thr Val Ile Leu Gly Asn Leu Thr Ile Leu
35 40 45

His Val Ile Cys Thr Asp Ala Thr Leu His Gly Pro Met Tyr Tyr Phe
50 55 60

Leu Gly Met Leu Ala Val Thr Asp Leu Gly Leu Cys Leu Ser Thr Leu
65 70 75 80

Pro Thr Val Leu Gly Ile Phe Trp Phe Asp Thr Arg Glu Ile Gly Ile
85 90 95

Pro Ala Cys Phe Thr Gln Leu Phe Phe Ile His Thr Leu Ser Ser Met
100 105 110

Glu Ser Ser Val Leu Leu Ser Met Ser Ile Asp Arg Ser Val Ala Val
115 120 125

Cys Asn Pro Leu His Asp Ser Thr Val Leu Thr Pro Ala Cys Ile Val
130 135 140

WO 02/24726

PCT/BE01/00162

Lys Met Gly Leu Ser Ser Val Leu Arg Ser Ala Leu Leu Ile Leu Pro
 145 150 155 160

Leu Pro Phe Leu Leu Lys Arg Phe Gln Tyr Cys His Ser His Val Leu
 165 170 175

Ala His Ala Tyr Cys Leu His Leu Glu Ile Met Lys Leu Ala Cys Ser
 180 185 190

Ser Ile Ile Val Asn His Ile Tyr Gly Leu Phe Val Val Ala Cys Thr
 195 200 205

Val Gly Val Asp Ser Leu Leu Ile Phe Leu Ser Tyr Ala Leu Ile Leu
 210 215 220

Arg Thr Val Leu Ser Ile Ala Ser His Gln Glu Arg Leu Arg Ala Leu
 225 230 235 240

Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Leu Phe Tyr Ile Pro
 245 250 255

Met Ile Gly Leu Ser Leu Val His Arg Phe Gly Glu His Leu Pro Arg
 260 265 270

Val Val His Leu Phe Met Ser Tyr Val Tyr Leu Leu Val Pro Pro Leu
 275 280 285

Met Asn Pro Ile Ile Tyr Ser Ile Lys Thr Lys Gln Ile Arg Gln Arg
 290 295 300

Ile Ile Lys Lys Phe Gln Phe Ile Lys Ser Leu Arg Cys Phe Trp Lys
 305 310 315 320

Asp

<210> 453
 <211> 909
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> CDS
 <222> (1)..(906)
 <223>

<400> 453

WO 02/24726

PCT/BE01/00162

atg acg aac ttg aat gca tca cag gcc aac cac cgt aac ttc att ctg Met Thr Asn Leu Asn Ala Ser Gln Ala Asn His Arg Asn Phe Ile Leu 1 5 10 15	48
aca ggt atc coa gga acg coa gac aag aac coa tgg ttg gcc ttt ccc Thr Gly Ile Pro Gly Thr Pro Asp Lys Asn Pro Trp Leu Ala Phe Pro 20 25 30	96
ctg gga ttt ctc tac aca ctc aca ctc ctg gga aat ggt acc atc cta Leu Gly Phe Leu Tyr Thr Leu Thr Leu Leu Gly Asn Gly Thr Ile Leu 35 40 45	144
gct gtc atc aag gtg gag coa agt ctc cat gag ccc acg tat tac ttc Ala Val Ile Lys Val Glu Pro Ser Leu His Glu Pro Thr Tyr Tyr Phe 50 55 60	192
ctt tct atc ttg gct ctc act gac gtt agt ctc tcc atg tcc acc ttg Leu Ser Ile Leu Ala Leu Thr Asp Val Ser Leu Ser Met Ser Thr Leu 65 70 75 80	240
ccc tcc atg ctc agc atc tac tgg ttt aat gcc cct cag att gtt ttt Pro Ser Met Leu Ser Ile Tyr Trp Phe Asn Ala Pro Gln Ile Val Phe 85 90 95	288
gat gca tgc atc atg cag atg ttc ttc ctc cat gta ttt gga ata gta Asp Ala Cys Ile Met Gln Met Phe Phe Ile His Val Phe Gly Ile Val 100 105 110	336
gaa tca gga gtc cta gtg tcc atg gcc ttt gac aga ttt gtg gcc atc Glu Ser Gly Val Leu Val Ser Met Ala Phe Asp Arg Phe Val Ala Ile 115 120 125	384
cga aac coa tta cac tat gtt tcc atc ctc act cac gat gtt att cga Arg Asn Pro Leu His Tyr Val Ser Ile Leu Thr His Asp Val Ile Arg 130 135 140	432
aag act gga ata tct gtc ctc acc cgg gca gtc tgt gtg gta ttc cct Lys Thr Gly Ile Ser Val Leu Thr Arg Ala Val Cys Val Val Phe Pro 145 150 155 160	480
gtg ccc ttc ctt ara aag tgc cta ccc ttc tgc cat tcc aat gtc ttg Val Pro Phe Leu Ile Lys Cys Leu Pro Phe Cys His Ser Asn Val Leu 165 170 175	528
tct cat tca tac tgt ctt cac caa aac atg atg cgg cta gct tgt gcc Ser His Ser Tyr Cys Leu His Gln Asn Met Met Arg Leu Ala Cys Ala 180 185 190	576
agc acc cgc atc aac agc ctc tac ggc ctc atc gtc gtc atc ttc aca Ser Thr Arg Ile Asn Ser Leu Tyr Gly Leu Ile Val Val Ile Phe Thr 195 200 205	624
ctg ggg ctc gat gtt ctc ctc act cta ctg tct tat gta ctc acc ctg Leu Gly Leu Asp Val Leu Leu Thr Leu Leu Ser Tyr Val Leu Thr Leu 210 215 220	672
aag act gtg ctg ggc att gtc tcc aga ggt gaa agg ctg aaa acc ctc Lys Thr Val Leu Gly Ile Val Ser Arg Gly Glu Arg Leu Lys Thr Leu 225 230 235 240	720
agc aca tgc ctc tct cac atg tct acc gtg ctc ctc ttc tat gtt cct	768

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PCT/BE01/00162

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Ser Thr Cys Leu Ser His Met Ser Thr Val Leu Leu Phe Tyr Val Pro
      245                      250                      255

ttt atg ggt gct gcc tcc atg atc cac aga ttt tgg gag cat tta tca      816
Phe Met Gly Ala Ala Ser Met Ile His Arg Phe Trp Glu His Leu Ser
      260                      265                      270

cca gta gtg cac atg gtc atg gct gat ata tac cta ctg ctc ccg cct      864
Pro Val Val His Met Val Met Ala Asp Ile Tyr Leu Leu Leu Pro Pro
      275                      280                      285

gtg cta aac ccc att gtc tac agt gtg aag acc aag caa att tga      909
Val Leu Asn Pro Ile Val Tyr Ser Val Lys Thr Lys Gln Ile
      290                      295                      300

<210> 454
<211> 302
<212> PRT
<213> Homo Sapiens

<400> 454
Met Thr Asn Leu Asn Ala Ser Gln Ala Asn His Arg Asn Phe Ile Leu
1      5      10      15

Thr Gly Ile Pro Gly Thr Pro Asp Lys Asn Pro Trp Leu Ala Phe Pro
20      25      30

Leu Gly Phe Leu Tyr Thr Leu Thr Leu Leu Gly Asn Gly Thr Ile Leu
35      40      45

Ala Val Ile Lys Val Glu Pro Ser Leu His Glu Pro Thr Tyr Tyr Phe
50      55      60

Leu Ser Ile Leu Ala Leu Thr Asp Val Ser Leu Ser Met Ser Thr Leu
65      70      75      80

Pro Ser Met Leu Ser Ile Tyr Trp Phe Asn Ala Pro Gln Ile Val Phe
85      90      95

Asp Ala Cys Ile Met Gln Met Phe Phe Ile His Val Phe Gly Ile Val
100     105     110

Glu Ser Gly Val Leu Val Ser Met Ala Phe Asp Arg Phe Val Ala Ile
115     120     125

Arg Asn Pro Leu His Tyr Val Ser Ile Leu Thr His Asp Val Ile Arg
130     135     140

Lys Thr Gly Ile Ser Val Leu Thr Arg Ala Val Cys Val Val Phe Pro
145     150     155     160

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PCT/BE01/00162

Val Pro Phe Leu Ile Lys Cys Leu Pro Phe Cys His Ser Asn Val Leu
165 170 175

Ser His Ser Tyr Cys Leu His Gln Asn Met Met Arg Leu Ala Cys Ala
180 185 190

Ser Thr Arg Ile Asn Ser Leu Tyr Gly Leu Ile Val Val Ile Phe Thr
195 200 205

Leu Gly Leu Asp Val Leu Leu Thr Leu Leu Ser Tyr Val Leu Thr Leu
210 215 220

Lys Thr Val Leu Gly Ile Val Ser Arg Gly Glu Arg Leu Lys Thr Leu
225 230 235 240

Ser Thr Cys Leu Ser His Met Ser Thr Val Leu Leu Phe Tyr Val Pro
245 250 255

Phe Met Gly Ala Ala Ser Met Ile His Arg Phe Trp Glu His Leu Ser
260 265 270

Pro Val Val His Met Val Met Ala Asp Ile Tyr Leu Leu Leu Pro Pro
275 280 285

Val Leu Asn Pro Ile Val Tyr Ser Val Lys Thr Lys Gln Ile
290 295 300

<210> 455
<211> 939
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(936)
<223>

<400> 455
atg tct gtt ctc aat aac tcc gaa gtc aag ctt ttc ctt ctg att ggg 48
Met Ser Val Leu Asn Asn Ser Glu Val Lys Leu Phe Leu Leu Ile Gly
1 5 10 15

atc cca gga ctg gaa cat gcc cac att tgg ttc tcc atc ccc att tgc 96
Ile Pro Gly Leu Glu His Ala His Ile Trp Phe Ser Ile Pro Ile Cys
20 25 30

ctc atg tac ctg ctt gcc atc atg ggc aac tgc acc att ctc ttt att 144
Leu Met Tyr Leu Leu Ala Ile Met Gly Asn Cys Thr Ile Leu Phe Ile
35 40 45

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ata aag aca gag ccc tog ctt cat gag ccc atg tat tat ttc ctt gcc      192
ile lys thr glu pro ser leu his glu pro met tyr tyr phe leu ala
   50                55                60

atg ttg gct gtc tot gac atg ggc ctg tcc ctc tcc tcc ctt cct acc      240
met leu ala val ser asp met gly leu ser leu ser ser leu pro thr
   65                70                75                80

atg ttg agg gtc ttc ttg ttc aat gcc atg gga att tca cct aat gcc      288
met leu arg val phe leu phe asn ala met gly ile ser pro asn ala
   85                90                95

tgc ttt gct caa gaa ttc ttc att cat gga ttc act gtc atg gaa tcc      336
cys phe ala gln glu phe phe ile his gly phe thr val met glu ser
   100               105               110

tca gta ctt cta att atg tct ttg gac cgc ttt ctt gcc att cac aat      384
ser val leu leu ile met ser leu asp arg phe leu ala ile his asn
   115               120               125

ccc tta aga tac agt tct atc ctc act agc aac agg gtt gct aaa atg      432
pro leu arg tyr ser ser ile leu thr ser asn arg val ala lys met
   130               135               140

gga ctt att tta ggc att agg agc att ctc tta gtg att cca ttt ccc      480
gly leu ile leu ala ile arg ser ile leu leu val ile pro phe pro
   145               150               155               160

ttc acc tta agg aga tta aaa tat tgt caa aag aat ctt ctt tct cac      528
phe thr leu arg arg leu lys tyr cys gln lys asn leu leu ser his
   165               170               175

tca tac tgt ctt cat cag gat aac atg aag ctg gcc tgc tct gac aac      576
ser tyr cys leu his gln asp thr met lys leu ala cys ser asp asn
   180               185               190

aag acc aat gtc atc tat ggc ttc ttc att gct ctc tgt act atg ctg      624
lys thr asn val ile tyr gly phe phe ile ala leu cys thr met leu
   195               200               205

gac ttg gca ctg att gtt ttg tot tat gtg ctg atc ttg aag act aba      672
asp leu ala leu ile val leu ser tyr val leu ile leu lys thr ile
   210               215               220

ctc agc att gca tot ttg gca gag agg ctt aag gcc cta aat acc tgt      720
leu ser ile ala ser leu ala glu arg leu lys ala leu asn thr cys
   225               230               235               240

gtc tcc cac atc tgt gct gtg ctc aac ttc tat gtg ccc atc atc acc      768
val ser his ile cys ala val leu thr phe tyr val pro ile ile thr
   245               250               255

ctg gct gcc atg cat cac ttt gcc aag cac aaa agc cct ctt gtt gtg      816
leu ala ala met his his phe ala lys his lys ser pro leu val val
   260               265               270

atc ctt att gca gat atg ttc ttg ttg gtg cgc ccc ctt atg aac ccc      864
ile leu ile ala asp met phe leu leu val pro pro leu met asn pro
   275               280               285

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att gtg tac tgt gta aag act cga caa atc tgg gag aag atc ttg ggg 912
 ile val tyr cys val lys thr arg gln ile trp glu lys ile leu gly
 290 295 300

aag ttg ctt aat gta tgt ggg aga taa 939
 lys leu leu asn val cys gly arg
 305 310

<210> 456
 <211> 312
 <212> PRT
 <213> Homo Sapiens
 <400> 456

Met Ser Val Leu Asn Asn Ser Glu Val Lys Leu Phe Leu Leu Ile Gly
 1 5 10 15

Ile Pro Gly Leu Glu His Ala His Ile Thr Phe Ser Ile Pro Ile Cys
 20 25 30

Leu Met Tyr Leu Leu Ala Ile Met Gly Asn Cys Thr Ile Leu Phe Ile
 35 40 45

Ile Lys Thr Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ala
 50 55 60

Met Leu Ala Val Ser Asp Met Gly Leu Ser Leu Ser Ser Leu Pro Thr
 65 70 75 80

Met Leu Arg Val Phe Leu Phe Asn Ala Met Gly Ile Ser Pro Asn Ala
 85 90 95

Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Thr Val Met Glu Ser
 100 105 110

Ser Val Leu Leu Ile Met Ser Leu Asp Arg Phe Leu Ala Ile His Asn
 115 120 125

Pro Leu Arg Tyr Ser Ser Ile Leu Thr Ser Asn Arg Val Ala Lys Met
 130 135 140

Gly Leu Ile Leu Ala Ile Arg Ser Ile Leu Leu Val Ile Pro Phe Pro
 145 150 155 160

Phe Thr Leu Arg Arg Leu Lys Tyr Cys Gln Lys Asn Leu Leu Ser His
 165 170 175

Ser Tyr Cys Leu His Gln Asp Thr Met Lys Leu Ala Cys Ser Asp Asn

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180 185 190
 Lys Thr Asn Val Ile Tyr Gly Phe Phe Ile Ala Leu Cys Thr Met Leu
 195 200 205
 Asp Leu Ala Leu Ile Val Leu Ser Tyr Val Leu Ile Leu Lys Thr Ile
 210 215 220
 Leu Ser Ile Ala Ser Leu Ala Glu Arg Leu Lys Ala Leu Asn Thr Cys
 225 230 235 240
 Val Ser His Ile Cys Ala Val Leu Thr Phe Tyr Val Pro Ile Ile Thr
 245 250 255
 Leu Ala Ala Met His His Phe Ala Lys His Lys Ser Pro Leu Val Val
 260 265 270
 Ile Leu Ile Ala Asp Met Phe Leu Leu Val Pro Pro Leu Met Asn Pro
 275 280 285
 Ile Val Tyr Cys Val Lys Thr Arg Gln Ile Trp Glu Lys Ile Leu Gly
 290 295 300
 Lys Leu Leu Asn Val Cys Gly Arg
 305 310

 <210> 457
 <211> 885
 <212> DNA
 <213> Homo Sapiens

 <220>
 <221> CDS
 <222> (1)..(882)
 <223>

 <400> 457
 atg cca cac ctc agc aac acc aca tct gag ttc cca atc ttc ctc cta 48
 Met Pro His Leu Ser Asn Thr Thr Ser Glu Phe Pro Ile Phe Leu Leu
 1 5 10 15
 aca ggc ttc cct ggg ctg gag gcc ttc cac atc tgg atc tca att ccc 96
 Thr Gly Phe Pro Gly Leu Glu Ala Phe His Ile Trp Ile Ser Ile Pro
 20 25 30
 ttc ttc ctt ctg agc aca gtt gct ctc tta ggg aac agc atg atc cta 144
 Phe Phe Leu Leu Ser Thr Val Ala Leu Leu Gly Asn Ser Met Ile Leu
 35 40 45
 ttg gtt gtt att ctg gag cca aac ctc cat gaa ccc atg tac tgt ttt 192
 Leu Val Val Ile Leu Glu Pro Asn Leu His Glu Pro Met Tyr Cys Phe

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50	55	60	
ctc ttc atg ctg tct gcc gct gac ctg ggg ctg acc ctc tcc aca atg			240
Leu Phe Met Leu Ser Ala Ala Asp Leu Gly Leu Thr Leu Ser Thr Met			
65	70	75	80
ccc acg acc ctc agt gtc etc tgg ttc agt gca cgt gaa atc atc ctc			288
Pro Thr Thr Leu Ser Val Leu Trp Phe Ser Ala Arg Glu Ile Ile Leu			
85	90		95
aat gca tgt atc atc cag etc ttt ttc etc cac agc tct ggc ttt atg			336
Asn Ala Cys Ile Ile Gln Leu Phe Phe Leu His Ser Ser Gly Phe Met			
100	105		110
gaa tcc toa gta ctg atg gcc atg gct ttt gac cgc ttt gtt gcc att			384
Glu Ser Ser Val Leu Met Ala Met Ala Phe Asp Arg Phe Val Ala Ile			
115	120		125
tgc aga ccc etc aga tat gct acc atc ctg aca gac tcc aga att cta			432
Cys Arg Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asp Ser Arg Ile Leu			
130	135		140
aag att ggt gta gca ata gtc cta aga aca ttg atc agc ctc tct cca			480
Lys Ile Gly Val Ala Ile Val Leu Arg Thr Leu Ile Ser Leu Ser Pro			
145	150		155
tcc etc ttt ctc att aag aga ctg tca ttt tgc aaa gtc aat gtc ctt			528
Ser Leu Phe Leu Ile Lys Arg Leu Ser Phe Cys Lys Val Asn Val Leu			
165	170		175
tcc cat tct tac tgc ttc cac cct gat gcg ctt aaa gtt gca tgt tct			576
Ser His Ser Tyr Cys Phe His Pro Asp Ala Leu Lys Val Ala Cys Ser			
180	185		190
gat tca agg atg aac agc tat gga ggc tta gct gtt ctc att ctg gtc			624
Asp Ser Arg Met Asn Ser Tyr Gly Gly Leu Ala Val Leu Ile Leu Val			
195	200		205
acc ggg gtt ggt aca cca tgt gtt gog ctt tcc tac atc ctg ata atc			672
Thr Gly Val Gly Thr Pro Cys Val Ala Leu Ser Tyr Ile Leu Ile Ile			
210	215		220
cac tct gta cta aac atc atc tct tca gag gga cgg agg aag gcc ttc			720
His Ser Val Leu Asn Ile Ile Ser Ser Glu Gly Arg Arg Lys Ala Phe			
225	230		235
gac act tgt gga tct cac att ggg gca gtt gca gtc ttc tac att ccc			768
Asp Thr Cys Gly Ser His Ile Gly Ala Val Ala Val Phe Tyr Ile Pro			
245	250		255
tgg gtt gtt ctt tca gtt gtc cac aga ttt ttc cac aag gct tca cca			816
Trp Val Val Leu Ser Val Val His Arg Phe Phe His Lys Ala Ser Pro			
260	265		270
ata tgt cca ccc act att gtc caa cat cta ttt cct tgg ccc etc tgg			864
Ile Cys Pro Pro Thr Ile Val Gln His Leu Phe Pro Trp Pro Leu Ser			
275	280		285
gct gaa ccc cat cat ata tag			885
Ala Glu Pro His His Ile			
290			

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<210> 458
 <211> 294
 <212> PPT
 <213> Homo Sapiens

<400> 458

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Met Pro His Leu Ser Asn Thr Thr Ser Glu Phe Pro Ile Phe Leu Leu
1      5      10      15

Thr Gly Phe Pro Gly Leu Glu Ala Phe His Ile Trp Ile Ser Ile Pro
20     25     30

Phe Phe Leu Leu Ser Thr Val Ala Leu Leu Gly Asn Ser Met Ile Leu
35     40     45

Leu Val Val Ile Leu Glu Pro Asn Leu His Glu Pro Met Tyr Cys Phe
50     55     60

Leu Phe Met Leu Ser Ala Ala Asp Leu Gly Leu Thr Leu Ser Thr Met
65     70     75     80

Pro Thr Thr Leu Ser Val Leu Trp Phe Ser Ala Arg Glu Ile Ile Leu
85     90     95

Asn Ala Cys Ile Ile Gln Leu Phe Phe Leu His Ser Ser Gly Phe Met
100    105    110

Glu Ser Ser Val Leu Met Ala Met Ala Phe Asp Arg Phe Val Ala Ile
115    120    125

Cys Arg Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asp Ser Arg Ile Leu
130    135    140

Lys Ile Gly Val Ala Ile Val Leu Arg Thr Leu Ile Ser Leu Ser Pro
145    150    155    160

Ser Leu Phe Leu Ile Lys Arg Leu Ser Phe Cys Lys Val Asn Val Leu
165    170    175

Ser His Ser Tyr Cys Phe His Pro Asp Ala Leu Lys Val Ala Cys Ser
180    185    190

Asp Ser Arg Met Asn Ser Tyr Gly Gly Leu Ala Val Leu Ile Leu Val
195    200    205

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Thr Gly Val Gly Thr Pro Cys Val Ala Leu Ser Tyr Ile Leu Ile Ile
210 215 220

His Ser Val Leu Asn Ile Ile Ser Ser Glu Gly Arg Arg Lys Ala Phe
225 230 235 240

Asp Thr Cys Gly Ser His Ile Gly Ala Val Ala Val Phe Tyr Ile Pro
245 250 255

Trp Val Val Leu Ser Val Val His Arg Phe Phe His Lys Ala Ser Pro
260 265 270

Ile Cys Pro Pro Thr Ile Val Gln His Leu Phe Pro Trp Pro Leu Ser
275 280 285

Ala Glu Pro His His Ile
290

<210> 459
<211> 994
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(981)
<223>

<400> 459
atg gca ata ttc aat aac acc act tgg tct tcc tca aac ttc ctc ctc 48
Met Ala Ile Phe Asn Asn Thr Thr Ser Ser Ser Ser Asn Phe Leu Leu
1 5 10 15

act gca ttc cct ggg ctg gaa tgt gct cat gtc tgg atc tcc att cca 96
Thr Ala Phe Pro Gly Leu Glu Cys Ala His Val Trp Ile Ser Ile Pro
20 25 30

gtc tgc tgt ctc tac acc att gcc ctc ttg gga aac agt atg atc ttt 144
Val Cys Cys Leu Tyr Thr Ile Ala Leu Leu Gly Asn Ser Met Ile Phe
35 40 45

ctt gtc atc att act aag cgg aga ctc cac aaa ccc atg tat tat ttc 192
Leu Val Ile Ile Thr Lys Arg Arg Leu His Lys Pro Met Tyr Tyr Phe
50 55 60

ctc tcc atg ctg gca gct gtt gat cta tgt ctg acc att acg acc ctt 240
Leu Ser Met Leu Ala Ala Val Asp Leu Cys Leu Thr Ile Thr Thr Leu
65 70 75 80

ccc act gtg ctt ggt gtt ctc tgg ttt cat gcc cgg gag atc agc ttt 288
Pro Thr Val Leu Gly Val Leu Trp Phe His Ala Arg Glu Ile Ser Phe
85 90 95

aaa gct tgc ttc att caa atg ttc ttt gtg cat gct ttc tcc ttg ctg 336

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Lys Ala Cys Phe Ile Gln Met Phe Phe Val His Ala Phe Ser Leu Leu
 100 105 110
 gag tcc tgg gtg ctg gta gcc atg gcc ttt gac cgc ttc gtg gct atc 384
 Glu Ser Ser Val Leu Val Ala Met Ala Phe Asp Arg Phe Val Ala Ile
 115 120 125
 tgt aac cca ctg aac tat gct act atc ctc aca gac agg atg gtc ctg 432
 Cys Asn Pro Leu Asn Tyr Ala Thr Ile Leu Thr Asp Arg Met Val Leu
 130 135 140
 gtg ata ggg ctg gtc atc tgc att aga cca gca gtt ttc tta ctt ccc 480
 Val Ile Gly Leu Val Ile Cys Ile Arg Pro Ala Val Phe Leu Leu Pro
 145 150 155 160
 ctt ctt gta gcc ata aac act gtg tct ttt cat ggg ggt cac gag ctt 528
 Leu Leu Val Ala Ile Asn Thr Val Ser Phe His Gly Gly His Glu Leu
 165 170 175
 tcc cat cca ttt tgc tac cac cca gaa gtg atc aaa tcc aca tat tcc 576
 Ser His Pro Phe Cys Tyr His Pro Glu Val Ile Lys Tyr Thr Tyr Ser
 180 185 190
 aaa cct tgg atc agc agt ttt tgg gga ctg ttt ctt cag ctc tac ctg 624
 Lys Pro Trp Ile Ser Ser Phe Trp Gly Leu Phe Leu Gln Leu Tyr Leu
 195 200 205
 aat ggc act gac gta ttg ttt att ctt ttc tcc tat gtc ctg atc ctc 672
 Asn Gly Thr Asp Val Leu Phe Ile Leu Phe Ser Tyr Val Leu Ile Leu
 210 215 220
 cgt act gtt ctg ggc att gtg gcc cga aag aag caa caa aaa gct ctc 720
 Arg Thr Val Leu Gly Ile Val Ala Arg Lys Lys Gln Gln Lys Ala Leu
 225 230 235 240
 agc act tgt gtc tgt cac atc tgt gca gtc act att ttc tat gtg cca 768
 Ser Thr Cys Val Cys His Ile Cys Ala Val Thr Ile Phe Tyr Val Pro
 245 250 255
 ctg atc agc ctc tct ttg gca cac cgc ctc ttc cac tcc acc cca agg 816
 Leu Ile Ser Leu Ser Leu Ala His Arg Leu Phe His Ser Thr Pro Arg
 260 265 270
 gtg ctc tgt agc act ttg gcc aat att tat ctg ctc tta cca cct gtg 864
 Val Leu Cys Ser Thr Leu Ala Asn Ile Tyr Leu Leu Leu Pro Pro Val
 275 280 285
 ctg aac cct atc att tac agc ttg aag acc aag aca atc cgc cag gct 912
 Leu Asn Pro Ile Ile Tyr Ser Leu Lys Thr Lys Thr Ile Arg Gln Ala
 290 295 300
 atg ttc cag ctg ctc caa tcc aag ggt tca tgg ggt ttt aat gtg agg 960
 Met Phe Gln Leu Leu Gln Ser Lys Gly Ser Trp Gly Phe Asn Val Arg
 305 310 315 320
 ggt ctt agg gga aga tgg gat tga 984
 Gly Leu Arg Gly Arg Trp Asp
 325

<210> 460

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PCT/BE01/00162

<211> 327

<212> PRT

<213> Homo Sapiens

<400> 450

Met Ala Ile Phe Asn Asn Thr Thr Ser Ser Ser Ser Asn Phe Leu Leu
 1 5 10 15

Thr Ala Phe Pro Gly Leu Glu Cys Ala His Val Trp Ile Ser Ile Pro
 20 25 30

Val Cys Cys Leu Tyr Thr Ile Ala Leu Leu Gly Asn Ser Met Ile Phe
 35 40 45

Leu Val Ile Ile Thr Lys Arg Arg Leu His Lys Pro Met Tyr Tyr Phe
 50 55 60

Leu Ser Met Leu Ala Ala Val Asp Leu Cys Leu Thr Ile Thr Thr Leu
 65 70 75 80

Pro Thr Val Leu Gly Val Leu Trp Phe His Ala Arg Glu Ile Ser Phe
 85 90 95

Lys Ala Cys Phe Ile Gln Met Phe Phe Val His Ala Phe Ser Leu Leu
 100 105 110

Glu Ser Ser Val Leu Val Ala Met Ala Phe Asp Arg Phe Val Ala Ile
 115 120 125

Cys Asn Pro Leu Asn Tyr Ala Thr Ile Leu Thr Asp Arg Met Val Leu
 130 135 140

Val Ile Gly Leu Val Ile Cys Ile Arg Pro Ala Val Phe Leu Leu Pro
 145 150 155 160

Leu Leu Val Ala Ile Asn Thr Val Ser Phe His Gly Gly His Glu Leu
 165 170 175

Ser His Pro Phe Cys Tyr His Pro Glu Val Ile Lys Tyr Thr Tyr Ser
 180 185 190

Lys Pro Trp Ile Ser Ser Phe Trp Gly Leu Phe Leu Gln Leu Tyr Leu
 195 200 205

Asn Gly Thr Asp Val Leu Phe Ile Leu Phe Ser Tyr Val Leu Ile Leu
 210 215 220

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Arg Thr Val Leu Gly Ile Val Ala Arg Lys Lys Gln Gln Lys Ala Leu
225 230 235 240

Ser Thr Cys Val Cys His Ile Cys Ala Val Thr Ile Phe Tyr Val Pro
245 250 255

Leu Ile Ser Leu Ser Leu Ala His Arg Leu Phe His Ser Thr Pro Arg
260 265 270

Val Leu Cys Ser Thr Leu Ala Asn Ile Tyr Leu Leu Leu Pro Pro Val
275 280 285

Leu Asn Pro Ile Ile Tyr Ser Leu Lys Thr Lys Thr Ile Arg Gln Ala
290 295 300

Met Phe Gln Leu Leu Gln Ser Lys Gly Ser Trp Gly Phe Asn Val Arg
305 310 315 320

Gly Leu Arg Gly Arg Trp Asp
325

<210> 461

<211> 975

<212> DNA

<213> Homo Sapiens

<220>

<221> CDS

<223> (1)..(972)

<223>

<400> 461

atg ctg ggt cca gct tat aac cac aca atg gaa acc gct gcc tcc ttc 48
Met Leu Gly Pro Ala Tyr Asn His Thr Met Glu Thr Pro Ala Ser Phe
1 5 10 15

ctc ctt gtg ggt atc cca gga ctg caa tct tca cat ctt tgg ctg gct 96
Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala
20 25 30

atc tca ctg agt gcc atg tac atc ata gcc ctg tta gga aac acc atc 144
Ile Ser Leu Ser Ala Met Tyr Ile Ile Ala Leu Leu Gly Asn Thr Ile
35 40 45

atc gtg act gca atc tgg atg gat tcc act cgg cat gag ccc atg tat 192
Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr
50 55 60

tgc ttt ctg tgt gtt ctg gct gct gtg gac att gtt atg gcc tcc tgg 240
Cys Phe Leu Cys Val Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser
65 70 75 80

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gtg gta ccc aag atg gtg agc atc ttc tgc tca gga gac agc tca atc      288
Val Val Pro Lys Met Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile
      85                      90                      95

agc ttt agt gct tgt ttc act cag atg ttt ttt gtc cac tta gcc aca      336
Ser Phe Ser Ala Cys Phe Thr Gln Met Phe Phe Val His Leu Ala Thr
      100                     105                     110

gct gtg gag acg ggg ctg ctg ctg acc atg gct ttt gac cgc tat gta      384
Ala Val Glu Thr Gly Leu Leu Leu Thr Met Ala Phe Asp Arg Tyr Val
      115                     120                     125

gcc atc tgc aag cct cta cac tac aag aga att ctc acg cct caa gtc      432
Ala Ile Cys Lys Pro Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val
      130                     135                     140

atg ctg gga atg agt atg gcc atc acc atc aga gct atc ata gcc ata      480
Met Leu Gly Met Ser Met Ala Ile Thr Ile Arg Ala Ile Ile Ala Ile
      145                     150                     155

act cca ctg agt tgg atg gtg agt cat cta cct ttc tgt gcc tcc aat      528
Thr Pro Leu Ser Trp Met Val Ser His Leu Pro Phe Cys Gly Ser Asn
      165                     170                     175

gtg gtt gtc cac tcc tac tgt gag cac ata gct ttg gcc agg tta gca      576
Val Val Val His Ser Tyr Cys Glu His Ile Ala Leu Ala Arg Leu Ala
      180                     185                     190

tgt gct gac ccc gtg ccc agc agt ctc tac agt ctg att ggt tcc tct      624
Cys Ala Asp Pro Val Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser
      195                     200                     205

ctt atg gtg ggc tct gat gtg gcc ttc att gct gcc tcc tat atc tta      672
Leu Met Val Gly Ser Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu
      210                     215                     220

att ctc aag gca gta ttt ggt ctc tcc tca aag act gct cag ttg aaa      720
Ile Leu Lys Ala Val Phe Gly Leu Ser Ser Lys Thr Ala Gln Leu Lys
      225                     230                     235

gca tta agc sca tgt ggc tcc cat gtg ggg gtt atg gct ttg tac tat      768
Ala Leu Ser Thr Cys Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr
      245                     250                     255

cta cct ggg atg gca tcc atc tat gcg gcc tgg ttg ggg cag gat gta      816
Leu Pro Gly Met Ala Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Val
      260                     265                     270

gtg ccc ttg cac acc caa gtc ctg cta gct gac ctg tac gtg atc atc      864
Val Pro Leu His Thr Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile
      275                     280                     285

cca gcc acc tta aat ccc atc atc tat ggc atg agg acc aaa caa ctg      912
Pro Ala Thr Leu Asn Pro Ile Ile Tyr Gly Met Arg Thr Lys Gln Leu
      290                     295                     300

cgg gag aga ata tgg agt tat ctg atg cat gtc ctc ttt gac cat tcc      960
Arg Glu Arg Ile Trp Ser Tyr Leu Met His Val Leu Phe Asp His Ser
      305                     310                     315

aac ctg ggt tca tga      975

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Asn Leu Gly Ser

<210> 462
 <211> 324
 <212> PRT
 <213> Homo Sapiens

<400> 462

Met Leu Gly Pro Ala Tyr Asn His Thr Met Glu Thr Pro Ala Ser Phe
 1 5 10 15

Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala
 20 25 30

Ile Ser Leu Ser Ala Met Tyr Ile Ile Ala Leu Leu Gly Asn Thr Ile
 35 40 45

Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr
 50 55 60

Cys Phe Leu Cys Val Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser
 65 70 75 80

Val Val Pro Lys Met Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile
 85 90 95

Ser Phe Ser Ala Cys Phe Thr Glu Met Phe Phe Val His Leu Ala Thr
 100 105 110

Ala Val Glu Thr Gly Leu Leu Leu Thr Met Ala Phe Asp Arg Tyr Val
 115 120 125

Ala Ile Cys Lys Pro Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val
 130 135 140

Met Leu Gly Met Ser Met Ala Ile Thr Ile Arg Ala Ile Ile Ala Ile
 145 150 155 160

Thr Pro Leu Ser Trp Met Val Ser His Leu Pro Phe Cys Gly Ser Asn
 165 170 175

Val Val Val His Ser Tyr Cys Glu His Ile Ala Leu Ala Arg Leu Ala
 180 185 190

Cys Ala Asp Pro Val Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser
 195 200 205

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PCT/BE01/00162

Leu Met Val Gly Ser Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu
210 215 220

Ile Leu Lys Ala Val Phe Gly Leu Ser Ser Lys Thr Ala Gln Leu Lys
225 230 235 240

Ala Leu Ser Thr Cys Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr
245 250 255

Leu Pro Gly Met Ala Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Val
260 265 270

Val Pro Leu His Thr Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile
275 280 285

Pro Ala Thr Leu Asn Pro Ile Ile Tyr Gly Met Arg Thr Lys Gln Leu
290 295 300

Arg Glu Arg Ile Trp Ser Tyr Leu Met His Val Leu Phe Asp His Ser
305 310 315 320

Asn Leu Gly Ser

<210> 463
<211> 963
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(960)
<223>

<400> 463	
atg agt tcc tgc aac ttc aca cat gcc acc ttt gtg ctt att ggt atc	48
Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile	
1 5 10 15	
cca gga tta gag aaa gcc cat ttc tgg ggt gcc ttc ccc ctc ctt tcc	96
Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser	
20 25 30	
atg tat gta gtg gca atg ttt gga aac tgc atc gtg gtc ttc atc gta	144
Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val	
35 40 45	
agg acg gaa cgc agc ctg cac gct ccg atg tac ctc ttt ctc tgc atg	192
Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met	
50 55 60	

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ctt gca gcc att gac ctg gcc tta tcc aca tcc acc atg cct aag atc      240
Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
65          70          75          80

ctt gcc ctt ttc tgg ttt gat tcc oga gag att agc ttt gag gcc tgt      288
Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
85          90          95

ctt acc cag atg ttc ttt att cat gcc ctc tca gcc att gaa tcc acc      336
Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
100         105         110

atc ctg ctg gcc atg gcc ttt gac cgt tat gtg gcc atc tgc cac cca      384
Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
115         120         125

ctg cgc cat gct gca gtg ctc aac aat aca gta aca gcc cag att ggc      432
Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
130         135         140

atc gtg gct gtg gtc cgc gga tcc ctc ttt ttt ttc cca ctg cct ctg      480
Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
145         150         155         160

ctg atc aag cgg ctg gcc ttc tgc cac tcc aat gtc ctc tgc cac tcc      528
Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
165         170         175

tat tgt gtc cac cag gat gta atg aag ttg gcc tat gca gac acb ttg      576
Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
180         185         190

ccc aat gtg gta tat ggt ctt act gcc att ctg ctg gtc atg ggc gtg      624
Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
195         200         205

gac gta atg ttc atc tcc ttg tcc tat ttt ctg ata ata cga acg gtt      672
Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
210         215         220

ctg caa ctg cct tcc aag tca gag cgg gcc aag gcc ttt gga acc tgt      720
Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
225         230         235         240

gtg tca cac att ggt gtg gta ctc gcc ttc tat gtg cca ctt att ggc      768
Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
245         250         255

ctc tca gtg gta cac cgc ttt gga aac agc ctt cat ccc att gtg cgt      816
Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
260         265         270

gtt gtc atg ggt gac atc tac ctg ctg ctg cct cct gtc atc aat ccc      864
Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
275         280         285

atc atc tat ggt gcc aac acc aaa cag atc aga aca cgg gtg ctg gct      912
Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
290         295         300

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atg ttc aag atc agc tgt gac aag gac ttg cag gct gtg gga ggc aag 960
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
 305 310 315 320

tga 963

<210> 464
 <211> 320
 <212> PRT
 <213> Homo Sapiens

<400> 464

Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
 1 5 10 15

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
 20 25 30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
 35 40 45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
 50 55 60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
 65 70 75 80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
 85 90 95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
 100 105 110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
 115 120 125

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
 130 135 140

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
 145 150 155 160

Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
 165 170 175

Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
 180 185 190

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PCT/BE01/00162

Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
195 200 205

Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
210 215 220

Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
225 230 235 240

Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
245 250 255

Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
260 265 270

Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
275 280 285

Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
290 295 300

Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
305 310 315 320

<210> 465

<211> 957

<212> DNA

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(954)

<223>

<400> 465

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Met Met Val Asp Pro Asn Gly Asn Glu Ser Ser Ala Thr Tyr Phe Ile
1 5 10 15

cta ata ggc ctc cct ggt tta gaa gag gct cag ttc tgg ttg gcc ttc 96
Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu Ala Phe
20 25 30

cca ttg tgc tcc ctc tac ctt att gct gtg cta ggt aac ttg aca atc 144
Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
35 40 45

atc tac att gtg cgg act gag cac agc ctg cat gag ccc atg tat ata 192
Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile
50 55 60

WO 02/24726

PCT/BE01/00162

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ttt ctt tgc atg ctt tca ggc att gac atc ctc atc tcc acc tca tcc      240
Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser
65              70              75              80

atg ccc aaa atg ctg gcc atc ttc tgg ttc aat tcc act acc atc cag      288
Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln
85              90              95

ttt gat got tgt ctg cta cag atg ttt gcc atc cac tcc tta tct ggc      336
Phe Asp Ala Cys Leu Leu Gln Met Phe Ala Ile His Ser Leu Ser Gly
100             105             110

atg gaa tcc aca gtg ctg ctg gcc atg gct ttt gac cgc tat gtg gcc      384
Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
115             120             125

atc tgt cac cca ctg cgc cat gcc aca gta ctt acg ttg cct cgt gtc      432
Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val
130             135             140

acc aaa att cgt gtg gct gct gtg gtg cgg ggc gct gca ctg atg gca      480
Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala
145             150             155             160

ccc ctt cct gtc ttc atc aag cag ctg ccc ttc tgc cgc tcc aat atc      528
Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile
165             170             175

ctt tcc cat tcc tac tgc cta cac caa gat gtc atg aag ctg gcc tgt      576
Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys
180             185             190

gat gat atc cgg gtc aat gtc gtc tat ggc ctt atc gtc atc atc tcc      624
Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser
195             200             205

gcc att ggc ctg gac tca ctt ctc atc tcc ttc tca tat ctg ctt att      672
Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile
210             215             220

ctt aag act gtg ttg ggc ttg aca cgt gaa gcc cag gcc aag gca ttt      720
Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe
225             230             235             240

ggc act tgc gtc tct cat gtg tgt gct gtg ttc ata ttc tat gta cot      768
Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro
245             250             255

ttc att gga ttg tcc atg gtg cat cgc ttt agc aag cgg cgt gac tct      816
Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser
260             265             270

ccg ctg ccc gtc atc ttg gcc aat atc tat ctg ctg gtt cct cct gtg      864
Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val
275             280             285

ctc aac cca att gtc tat gga gtg aag aca aag gag att cga cag cgc      912
Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Glu Ile Arg Gln Arg
290             295             300

atc ctt cga ctt ttc cat gtg gcc aca cac gct tca gag ccc tag      957

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PCT/BE01/00162

Ile Leu Arg Leu Phe His Val Ala Thr His Ala Ser Glu Pro
 305 310 315

<210> 466
 <211> 318
 <212> PRT
 <213> Homo Sapiens

<400> 466

Met Met Val Asp Pro Asn Gly Asn Glu Ser Ser Ala Thr Tyr Phe Ile
 1 5 10 15

Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu Ala Phe
 20 25 30

Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
 35 40 45

Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile
 50 55 60

Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser
 65 70 75 80

Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln
 85 90 95

Phe Asp Ala Cys Leu Leu Gln Met Phe Ala Ile His Ser Leu Ser Gly
 100 105 110

Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
 115 120 125

Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val
 130 135 140

Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala
 145 150 155 160

Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile
 165 170 175

Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys
 180 185 190

Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser
 195 200 205

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PCT/BE01/00162

Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile
210 215 220

Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe
225 230 235 240

Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro
245 250 255

Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser
260 265 270

Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val
275 280 285

Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Glu Ile Arg Gln Arg
290 295 300

Ile Leu Arg Leu Phe His Val Ala Thr His Ala Ser Glu Pro
305 310 315

<210> 467
<211> 975
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(972)
<223>

<400> 467
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Met Leu Gly Pro Ala Tyr Asn His Thr Met Glu Thr Pro Ala Ser Phe
1 5 10 15
ctc ctt gtg ggt atc cca gga ctg caa tct tca cat ctt tgg ctg gct 96
Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala
20 25 30
atc tca ctg agt gcc atg tac atc ata gcc ctg tta gga aac acc atc 144
Ile Ser Leu Ser Ala Met Tyr Ile Ile Ala Leu Leu Gly Asn Thr Ile
35 40 45
atc gtg act gca atc tgg atg gat tcc act cgg cat gag ccc atg tat 192
Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr
50 55 60
tgc ttt ctg tgt gtt ctg gct gct gtg gac att gtt atg gcc tcc tgg 240
Cys Phe Leu Cys Val Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser
65 70 75 80

WO 02/24726

PCT/BE01/00162

gtg gta ccc aag atg gtg agc atc ttc tgc tca gga gac agc tca atc Val Val Pro Lys Met Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile 85 90 95	288
agc ttt agt gct tgt ttc act cag atg ttt ttt gtc cac tta gcc aca Ser Phe Ser Ala Cys Phe Thr Gln Met Phe Phe Val His Leu Ala Thr 100 105 110	336
gct gtg gag acg ggg ctg ctg ctg acc atg gct ttt gac cgc tat gta Ala Val Glu Thr Gly Leu Leu Thr Met Ala Phe Asp Arg Tyr Val 115 120 125	384
gcc atc tgc aag cct cta cac tac aag aga att ctc acg cct caa gtg Ala Ile Cys Lys Pro Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val 130 135 140	432
atg ctg gga atg agt atg gcc atc acc atc aga gct atc ata gcc ata Met Leu Gly Met Ser Met Ala Ile Thr Ile Arg Ala Ile Ile Ala Ile 145 150 155 160	480
act cca ctg agt tgg atg gtg agt cat cta cct ttc tgt ggc tcc aat Thr Pro Leu Ser Trp Met Val Ser His Leu Pro Phe Cys Gly Ser Asn 165 170 175	528
gtg gtt gtc cac tcc tac tgt gag cac ata gct ttg gcc agg tta gca Val Val Val His Ser Tyr Cys Glu His Ile Ala Leu Ala Arg Leu Ala 180 185 190	576
tgt gct gac ccc gtg ccc agc agt ctc tac agt ctg att ggt tcc tct Cys Ala Asp Pro Val Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser 195 200 205	624
ott atg gtg ggc tct gat gtg gcc ttc att gct gcc tcc tat atc tta Leu Met Val Gly Ser Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu 210 215 220	672
att ctc aag gca gta ttt ggt ctc tcc tca aag act gct cag ttg aaa Ile Leu Lys Ala Val Phe Gly Leu Ser Ser Lys Thr Ala Gln Leu Lys 225 230 235 240	720
gca tta agc aca tgt ggc tcc cat gtg ggg gtt atg gct ttg tac tat Ala Leu Ser Thr Cys Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr 245 250 255	768
cta cct ggg atg gca tcc atc tat gcg gcc tgg ttg ggg cag gat gta Leu Pro Gly Met Ala Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Val 260 265 270	816
gtg ccc ttg cac acc caa gtc ctg cta gct gac ctg tac gtg atc atc Val Pro Leu His Thr Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile 275 280 285	864
cca gcc acc tta aat ccc atc atc tat ggc atg agg acc aaa caa ctg Pro Ala Thr Leu Asn Pro Ile Ile Tyr Gly Met Arg Thr Lys Gln Leu 290 295 300	912
cgg gag aga ala tgg agt tat ctg atg cat gtc ctc ttt gac cat tcc Arg Glu Arg Ile Trp Ser Tyr Leu Met His Val Leu Phe Asp His Ser 305 310 315 320	960

WO 02/24726

PCT/BE01/00162

aac ctg ggt tca tga
Asn Leu Gly Ser

975

<210> 468
<211> 324
<212> PRT
<213> Homo Sapiens

<400> 468

Met Leu Gly Pro Ala Tyr Asn His Thr Met Glu Thr Pro Ala Ser Phe
1 5 10 15Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala
20 25 30Ile Ser Leu Ser Ala Met Tyr Ile Ile Ala Leu Leu Gly Asn Thr Ile
35 40 45Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr
50 55 60Cys Phe Leu Cys Val Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser
65 70 75 80Val Val Pro Lys Met Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile
85 90 95Ser Phe Ser Ala Cys Phe Thr Gln Met Phe Phe Val His Leu Ala Thr
100 105 110Ala Val Glu Thr Gly Leu Leu Leu Thr Met Ala Phe Asp Arg Tyr Val
115 120 125Ala Ile Cys Lys Pro Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val
130 135 140Met Leu Gly Met Ser Met Ala Ile Thr Ile Arg Ala Ile Ile Ala Ile
145 150 155 160Thr Pro Leu Ser Trp Met Val Ser His Leu Pro Phe Cys Gly Ser Asn
165 170 175Val Val Val His Ser Tyr Cys Glu His Ile Ala Leu Ala Arg Leu Ala
180 185 190

Cys Ala Asp Pro Val Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser

WO 02/24726

PCT/BE01/00162

195 200 205

Leu Met Val Gly Ser Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu
210 215 220

Ile Leu Lys Ala Val Phe Gly Leu Ser Ser Lys Thr Ala Gln Leu Lys
225 230 235 240

Ala Leu Ser Thr Cys Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr
245 250 255

Leu Pro Gly Met Ala Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Val
260 265 270

Val Pro Leu His Thr Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile
275 280 285

Pro Ala Thr Leu Asn Pro Ile Ile Tyr Gly Met Arg Thr Lys Gln Leu
290 295 300

Arg Glu Arg Ile Trp Ser Tyr Leu Met His Val Leu Phe Asp His Ser
305 310 315 320

Asn Leu Gly Ser

<210> 469
<211> 975
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(972)
<223>

<400> 469
atg ctg ggt cca gct tac aac cac aca atg gaa acc cot gcc tcc ttc 48
Met Leu Gly Pro Ala Tyr Asn His Thr Met Glu Thr Pro Ala Ser Phe
1 5 10 15

ctc ctt gtg ggt atc cca gga ctg caa tot tca cat ctt tgg ctg gct 96
Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala
20 25 30

atc tca ctg agt gcc atg tac atc aca gcc ctg tta gga aac acc ctc 144
Ile Ser Leu Ser Ala Met Tyr Ile Thr Ala Leu Leu Gly Asn Thr Leu
35 40 45

atc gtg act gca atc tgg atg gat toc act cgg cat gag ccc atg tat 192
Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr

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50	55	60	
tgc ttt ctg tgt gtt	ctg gct gct gtg gac att gtt atg gcc tcc tcc		240
Cys Phe Leu Cys Val	Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser		
65	70	75	80
gtg gta ccc aag atg	gtg agc atc ttc tgc tgc gga gac agc tcc atc		288
Val Val Pro Lys Met	Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile		
	85	90	95
agc ttt agt gct tgt	tcc act cag atg ttt ttt gtc cac tta gcc aca		336
Ser Phe Ser Ala Cys	Phe Thr Gln Met Phe Phe Val His Leu Ala Thr		
	100	105	110
gct gtg gag agc ggg	ctg ctg ctg acc atg gct ttt gac cgc tat gta		384
Ala Val Glu Thr Gly	Leu Leu Leu Thr Met Ala Phe Asp Arg Tyr Val		
	115	120	125
gcc atc tgc aag cct	cta cac tac aag aga att ctc acg cct caa gtg		432
Ala Ile Cys Lys Pro	Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val		
	130	135	140
atg ctg gga atg agt	atg gcc gtc acc atc aga gct gtc aca ttc atg		480
Met Leu Gly Met Ser	Met Ala Val Thr Ile Arg Ala Val Thr Phe Met		
	145	150	155
act cca ctg agt tgg	atg atg aat cat cta cct ttc tgt ggc tcc aat		528
Thr Pro Leu Ser Trp	Met Met Asn His Leu Pro Phe Cys Gly Ser Asn		
	165	170	175
gtg gtt gtc cac tcc	tac tgt aag cac ata gct ttg gcc agg tta gca		576
Val Val Val His Ser	Tyr Cys Lys His Ile Ala Leu Ala Arg Leu Ala		
	180	185	190
tgt gct gac ccc gtg	ccc agc agt ctc tac agt ctg att ggt tcc tct		624
Cys Ala Asp Pro Val	Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser		
	195	200	205
ctt atg gtg ggc tct	gat gtg gcc ttc att gct gcc tcc tat atc tta		672
Leu Met Val Gly Ser	Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu		
	210	215	220
att ctc agg gca gta	ttt gat ctc tcc tca aag act gct cag ttg aaa		720
Ile Leu Arg Ala Val	Phe Asp Leu Ser Ser Lys Thr Ala Gln Leu Lys		
	225	230	235
gca tta agc aca tgt	ggc tcc cat gtg ggg gtt atg gct ttg tac tat		768
Ala Leu Ser Thr Cys	Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr		
	245	250	255
cta cct ggg atg gca	tcc atc tat gcg gcc tgg ttg ggg cag gat ata		816
Leu Pro Gly Met Ala	Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Ile		
	260	265	270
gtg ccc ttg cac acc	caa gtg ctg cta gct gac ctg tac gtg atc atc		864
Val Pro Leu His Thr	Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile		
	275	280	285
cca gcc act tta aat	ccc atc atc tat gcg atg agg acc aaa caa ttg		912
Pro Ala Thr Leu Asn	Pro Ile Ile Tyr Gly Met Arg Thr Lys Gln Leu		
	290	295	300

WO 02/24726

PCT/BE01/00162

ctg gag gga ata tgg agt tat ctg atg cac ttc ctc ttt gac cac tcc 960
 Leu Glu Gly Ile Trp Ser Tyr Leu Met His Phe Leu Phe Asp His Ser
 305 310 315 320

aac ctg ggt tca tga 975
 Asn Leu Gly Ser

<210> 470
 <211> 324
 <212> FET
 <213> Homo Sapiens

<400> 470

Met Leu Gly Pro Ala Tyr Asn His Thr Met Glu Thr Pro Ala Ser Phe
 1 5 10 15

Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala
 20 25 30

Ile Ser Leu Ser Ala Met Tyr Ile Thr Ala Leu Leu Gly Asn Thr Leu
 35 40 45

Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr
 50 55 60

Cys Phe Leu Cys Val Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser
 65 70 75 80

Val Val Pro Lys Met Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile
 85 90 95

Ser Phe Ser Ala Cys Phe Thr Gln Met Phe Phe Val His Leu Ala Thr
 100 105 110

Ala Val Glu Thr Gly Leu Leu Leu Thr Met Ala Phe Asp Arg Tyr Val
 115 120 125

Ala Ile Cys Lys Pro Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val
 130 135 140

Met Leu Gly Met Ser Met Ala Val Thr Ile Arg Ala Val Thr Phe Met
 145 150 155 160

Thr Pro Leu Ser Trp Met Met Asn His Leu Pro Phe Cys Gly Ser Asn
 165 170 175

WO 02/24726

PCT/BE01/00162

Val Val Val His Ser Tyr Cys Lys His Ile Ala Leu Ala Arg Leu Ala
 180 185 190
 Cys Ala Asp Pro Val Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser
 195 200 205
 Leu Met Val Gly Ser Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu
 210 215 220
 Ile Leu Arg Ala Val Phe Asp Leu Ser Ser Lys Thr Ala Gln Leu Lys
 225 230 235 240
 Ala Leu Ser Thr Cys Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr
 245 250 255
 Leu Pro Gly Met Ala Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Ile
 260 265 270
 Val Pro Leu His Thr Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile
 275 280 285
 Pro Ala Thr Leu Asn Pro Ile Ile Tyr Gly Met Arg Thr Lys Gln Leu
 290 295 300
 Leu Glu Gly Ile Trp Ser Tyr Leu Met His Phe Leu Phe Asp His Ser
 305 310 315 320
 Asn Leu Gly Ser

 <210> 471
 <211> 975
 <212> DNA
 <213> Homo Sapiens

 <220>
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 <222> (1)..(972)
 <223>

 <400> 471
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 1 5 10 15
 aat ctg gtc cac gca gca tac ttc ctt ttg gtg ggt atc cct ggc ctg 96
 Asn Leu Val His Ala Ala Tyr Phe Leu Leu Val Gly Ile Pro Gly Leu
 20 25 30
 ggg cct acc ata cac ttt tgg ctg gct ttc cca ctg tgt ttt atg tat 144

WO 02/24726

PCT/BE01/00162

Gly Pro Thr Ile His Phe Trp Leu Ala Phe Pro Leu Cys Phe Met Tyr
 35 40 45
 gcc ttg gcc acc ctg ggt aac ctg acc att gtc ctc atc att cgt gtg 192
 Ala Leu Ala Thr Leu Gly Asn Leu Thr Ile Val Leu Ile Ile Arg Val
 50 55 60
 gag agg cga ctg cat gag ccc atg tac ctc ttc ctg gcc atg ctt tcc 240
 Glu Arg Arg Leu His Glu Pro Met Tyr Leu Phe Leu Ala Met Leu Ser
 65 70 75 80
 act att gac cta gtc ctc tcc tct atc acc atg ccc aag atg gcc agt 288
 Thr Ile Asp Leu Val Leu Ser Ser Ile Thr Met Pro Lys Met Ala Ser
 85 90 95
 ctt ttc ctg atg gcc atc cag gag atc gag ttc aac att tgc ctg gcc 336
 Leu Phe Leu Met Gly Ile Gln Glu Ile Glu Phe Asn Ile Cys Leu Ala
 100 105 110
 cag atg ttc ctt atc cat gct ctg tca gcc gtg gag tca gct gtc ctg 384
 Gln Met Phe Leu Ile His Ala Leu Ser Ala Val Glu Ser Ala Val Leu
 115 120 125
 ctg gcc atg gct ttt gac cgc ttt gtg gcc att tgc cac cca ttg cgc 432
 Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile Cys His Pro Leu Arg
 130 135 140
 cat gct tct gtg ctg aca ggg tgt act gtg gcc aag att gga cta tct 480
 His Ala Ser Val Leu Thr Gly Cys Thr Val Ala Lys Ile Gly Leu Ser
 145 150 155 160
 gcc ctg acc agg ggg ttt gta ttc ttc ttc cca ctg ccc ttc atc ctc 528
 Ala Leu Thr Arg Gly Phe Val Phe Phe Phe Pro Leu Pro Phe Ile Leu
 165 170 175
 aag tgg ttg tcc tac tgc caa aca cat act gtc aca cac tcc ttc tgt 576
 Lys Trp Leu Ser Tyr Cys Gln Thr His Thr Val Thr His Ser Phe Cys
 180 185 190
 ctg cac caa gat att atg aag ctg tcc tgt act gac acc agg gtc aat 624
 Leu His Gln Asp Ile Met Lys Leu Ser Cys Thr Asp Thr Arg Val Asn
 195 200 205
 gtg gtt tat gga ctc ttc atc atc ctc tca gtc atg ggt gtg gac tct 672
 Val Val Tyr Gly Leu Phe Ile Ile Leu Ser Val Met Gly Val Asp Ser
 210 215 220
 ctc ttc att ggc ttc tca tat atc ctc atc ctg tgg gct gtt ttg gag 720
 Leu Phe Ile Gly Phe Ser Tyr Ile Leu Ile Leu Trp Ala Val Leu Glu
 225 230 235 240
 ctg tcc tct cgg agg gca gca ctc aag gct ttc aac acc tgc atc tcc 768
 Leu Ser Ser Arg Arg Ala Ala Leu Lys Ala Phe Asn Thr Cys Ile Ser
 245 250 255
 cac ctc tgt gct gtt ctg gtc ttc tat gta ccc ctc att ggg ctc tgc 816
 His Leu Cys Ala Val Leu Val Phe Tyr Val Pro Leu Ile Gly Leu Ser
 260 265 270
 gtg gtg cat agg ctg ggt ggt ccc acc tcc ctc ctc cat gtg gtt atg 864
 Val Val His Arg Leu Gly Gly Pro Thr Ser Leu Leu His Val Val Met

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275 280 285
 gct aat acc tac ttg ctg cta cca cct gta gtc aac ccc ctt gtc tat 912
 Ala Asn Thr Tyr Leu Leu Leu Pro Pro Val Val Asn Pro Leu Val Tyr
 290 295 300
 gga gcc aag acc aaa gag atc tgt tca agg gtc ctc tgt atg ttc tca 960
 Gly Ala Lys Thr Lys Glu Ile Cys Ser Arg Val Leu Cys Met Phe Ser
 305 310 315 320
 caa ggt ggc aag tga 975
 Gln Gly Gly Lys

 <210> 472
 <211> 524
 <212> PRT
 <213> Homo Sapiens

 <400> 472
 Met Gln Lys Pro Gln Leu Leu Val Pro Ile Ile Ala Thr Ser Asn Gly
 1 5 10 15

 Asn Leu Val His Ala Ala Tyr Phe Leu Leu Val Gly Ile Pro Gly Leu
 20 25 30

 Gly Pro Thr Ile His Phe Trp Leu Ala Phe Pro Leu Cys Phe Met Tyr
 35 40 45

 Ala Leu Ala Thr Leu Gly Asn Leu Thr Ile Val Leu Ile Ile Arg Val
 50 55 60

 Glu Arg Arg Leu His Glu Pro Met Tyr Leu Phe Leu Ala Met Leu Ser
 65 70 75 80

 Thr Ile Asp Leu Val Leu Ser Ser Ile Thr Met Pro Lys Met Ala Ser
 85 90 95

 Leu Phe Leu Met Gly Ile Gln Glu Ile Glu Phe Asn Ile Cys Leu Ala
 100 105 110

 Gln Met Phe Leu Ile His Ala Leu Ser Ala Val Glu Ser Ala Val Leu
 115 120 125

 Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile Cys His Pro Leu Arg
 130 135 140

 His Ala Ser Val Leu Thr Gly Cys Thr Val Ala Lys Ile Gly Leu Ser
 145 150 155 160

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Ala Leu Thr Arg Gly Phe Val Phe Phe Phe Pro Leu Pro Phe Ile Leu
165 170 175

Lys Trp Leu Ser Tyr Cys Gln Thr His Thr Val Thr His Ser Phe Cys
180 195 190

Leu His Gln Asp Ile Met Lys Leu Ser Cys Thr Asp Thr Arg Val Asn
195 200 205

Val Val Tyr Gly Leu Phe Ile Ile Leu Ser Val Met Gly Val Asp Ser
210 215 220

Leu Phe Ile Gly Phe Ser Tyr Ile Leu Ile Leu Trp Ala Val Leu Gln
225 230 235 240

Leu Ser Ser Arg Arg Ala Ala Leu Lys Ala Phe Asn Thr Cys Ile Ser
245 250 255

His Leu Cys Ala Val Leu Val Phe Tyr Val Pro Leu Ile Gly Leu Ser
260 265 270

Val Val His Arg Leu Gly Gly Pro Thr Ser Leu Leu His Val Val Met
275 280 285

Ala Asn Thr Tyr Leu Leu Leu Pro Pro Val Val Asn Pro Leu Val Tyr
290 295 300

Gly Ala Lys Thr Lys Glu Ile Cys Ser Arg Val Leu Cys Met Phe Ser
305 310 315 320

Gln Gly Gly Lys

<210> 473
<211> 943
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(942)
<223>

<400> 473
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Met Leu Thr Phe His Asn Val Cys Ser Val Pro Ser Ser Phe Trp Leu
1 5 10 15

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act ggc atc cca ggg ctg gag tcc cta cac gtc tgg ctc tcc atc ccc      96
Thr Gly Ile Pro Gly Leu Glu Ser Leu His Val Trp Leu Ser Ile Pro
      20                      25                      30

ttt ggc tcc atg tac ctg gtg gct gtg ggg aat gtg acc atc ctg      144
Phe Gly Ser Met Tyr Leu Val Ala Val Val Gly Asn Val Thr Ile Leu
      35                      40                      45

gct gtg gta aag ata gaa cgc agc ctg cac cag ccc atg tac ttt ttc      192
Ala Val Val Lys Ile Glu Arg Ser Leu His Gln Pro Met Tyr Phe Phe
      50                      55                      60

ttg tgc atg ttg gct gcc att gac ctg gtt ctg tct act tcc act ata      240
Leu Cys Met Leu Ala Ala Ile Asp Leu Val Leu Ser Thr Ser Thr Ile
      65                      70                      75                      80

ccc aaa ctt ctg gga atc ttc tgg ttc ggt gct tgt gac att ggc ctg      288
Pro Lys Leu Leu Gly Ile Phe Trp Phe Gly Ala Cys Asp Ile Gly Leu
      85                      90                      95

gac gcc tgc ttg ggc caa atg ttc ctt atc cac tgc ttt gcc act gtt      336
Asp Ala Cys Leu Gly Gln Met Phe Leu Ile His Cys Phe Ala Thr Val
      100                      105                      110

gag tca ggc atc ttc ctt gcc atg gct ttt gat cgc tac gtg gcc atc      384
Glu Ser Gly Ile Phe Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
      115                      120                      125

tgc aac cca cta cgt cat agc atg gtg ctc act tat aca gtg gtg ggt      432
Cys Asn Pro Leu Arg His Ser Met Val Leu Thr Tyr Thr Val Val Gly
      130                      135                      140

cgt ttg ggg ctt gtt tct ctc ctc cgg ggt gtt ctc tac att gga cct      480
Arg Leu Gly Leu Val Ser Leu Leu Arg Gly Val Leu Tyr Ile Gly Pro
      145                      150                      155                      160

ctg cct ctg atg atc cgc ctg cgg ctg ccc ctt tat aaa acc cat gtt      528
Leu Pro Leu Met Ile Arg Leu Arg Leu Pro Leu Tyr Lys Thr His Val
      165                      170                      175

atc tcc cac tcc tac tgt gag cac atg gct gta gtt gcc ttg aca tgt      576
Ile Ser His Ser Tyr Cys Glu His Met Ala Val Val Ala Leu Thr Cys
      180                      185                      190

ggc gac agc agg gtc aat aat gtc tat ggg ctg agc atc ggc ttt ctg      624
Gly Asp Ser Arg Val Ser Asn Asn Val Tyr Gly Leu Ser Ile Gly Phe Leu
      195                      200                      205

gtg ttg atc ctg gac tca gtg gct att gct gca tcc tat gtg atg att      672
Val Leu Ile Leu Asp Ser Val Ala Ile Ala Ala Ser Tyr Val Met Ile
      210                      215                      220

ttc agg gcc gtg atg ggg tta gcc act cct gag gct agg ctt aaa acc      720
Phe Arg Ala Val Met Gly Leu Ala Thr Pro Glu Ala Arg Leu Lys Thr
      225                      230                      235                      240

ctg ggg aca tgc gct tct cac ctc tgt gcc atc ctg atc ttt tat gtt      768
Leu Gly Thr Cys Ala Ser His Leu Cys Ala Ile Leu Ile Phe Tyr Val
      245                      250                      255

ccc att gct gtt tct tcc ctg att cac cga ttt ggt cag tgt gtg cct      816

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Pro Ile Ala Val Ser Ser Leu Ile His Arg Phe Gly Gln Cys Val Pro
 260 265 270

oct cca gtc cac act ctg ctg gcc aac ttc tat ctc ctc att oct cca 864
 Pro Pro Val His Thr Leu Leu Ala Asn Phe Tyr Leu Leu Ile Pro Pro
 275 280 285

atc ctc aat ccc att gtc tat gct gtt cgc acc eac cag atc cga gag 912
 Ile Leu Asn Pro Ile Val Tyr Ala Val Arg Thr Lys Gln Ile Arg Glu
 290 295 300

agc ctt ctc cca ata cca agg ata gaa atg a 943
 Ser Leu Leu Gln Ile Pro Arg Ile Glu Met
 305 310

<210> 474
 <211> 314
 <212> PRT
 <213> Homo Sapiens
 <400> 474

Met Leu Thr Phe His Asn Val Cys Ser Val Pro Ser Ser Phe Trp Leu
 1 5 10 15

Thr Gly Ile Pro Gly Leu Glu Ser Leu His Val Trp Leu Ser Ile Pro
 20 25 30

Phe Gly Ser Met Tyr Leu Val Ala Val Val Gly Asn Val Thr Ile Leu
 35 40 45

Ala Val Val Lys Ile Glu Arg Ser Leu His Gln Pro Met Tyr Phe Phe
 50 55 60

Leu Cys Met Leu Ala Ala Ile Asp Leu Val Leu Ser Thr Ser Thr Ile
 65 70 75 80

Pro Lys Leu Leu Gly Ile Phe Trp Phe Gly Ala Cys Asp Ile Gly Leu
 85 90 95

Asp Ala Cys Leu Gly Gln Met Phe Leu Ile His Cys Phe Ala Thr Val
 100 105 110

Glu Ser Gly Ile Phe Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
 115 120 125

Cys Asn Pro Leu Arg His Ser Met Val Leu Thr Tyr Thr Val Val Gly
 130 135 140

Arg Leu Gly Leu Val Ser Leu Leu Arg Gly Val Leu Tyr Ile Gly Pro
 145 150 155 160

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Leu Pro Leu Met Ile Arg Leu Arg Leu Pro Leu Tyr Lys Thr His Val
 165 170 175
 Ile Ser His Ser Tyr Cys Glu His Met Ala Val Val Ala Leu Thr Cys
 180 185 190
 Gly Asp Ser Arg Val Asn Asn Val Tyr Gly Leu Ser Ile Gly Phe Leu
 195 200 205
 Val Leu Ile Leu Asp Ser Val Ala Ile Ala Ala Ser Tyr Val Met Ile
 210 215 220
 Phe Arg Ala Val Met Gly Leu Ala Thr Pro Glu Ala Arg Leu Lys Thr
 225 230 235 240
 Leu Gly Thr Cys Ala Ser His Leu Cys Ala Ile Leu Ile Phe Tyr Val
 245 250 255
 Pro Ile Ala Val Ser Ser Leu Ile His Arg Phe Gly Gln Cys Val Pro
 260 265 270
 Pro Pro Val His Thr Leu Leu Ala Asn Phe Tyr Leu Leu Ile Pro Pro
 275 280 285
 Ile Leu Asn Pro Ile Val Tyr Ala Val Arg Thr Lys Gln Ile Arg Glu
 290 295 300
 Ser Leu Leu Gln Ile Pro Arg Ile Glu Met
 305 310
 <210> 475
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 <212> DNA
 <213> Homo Sapiens
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 <221> CDS
 <222> (1)..(939)
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 Met Ser Pro Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Leu Gly 15
 1 5 10
 ctc ccc atc cgg cca gag cag cag gct gtc ttc ttc acc ctg ttc ctg 96
 Leu Pro Ile Arg Pro Glu Gln Gln Ala Val Phe Phe Thr Leu Phe Leu 20 25 30

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ggc atg tac ctg acc acg gtc ctg ggg aac ctg ctc atc atg ctg ctc      144
Gly Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Met Leu Leu
35 40 45

atc cag ctg gac tct cac ctt cac acc ccc atg tac ttc ttc ctc agc      192
Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50 55 60

cac ttg gct ctc act gac atc tcc ttt tca tct gtc act gtc cct aag      240
His Leu Ala Leu Thr Asp Ile Ser Phe Ser Val Thr Val Pro Lys
65 70 75 80

atg ctg atg gac atg cgg act aag tac aaa tgc atc ctc tat gag gaa      288
Met Leu Met Asp Met Arg Thr Lys Tyr Lys Ser Ile Leu Tyr Glu Glu
85 90 95

tgc att tct cag atg tat ttt ttt ata ttt ttt act gac ctg gac age      336
Cys Ile Ser Gln Met Tyr Phe Phe Ile Phe Phe Thr Asp Leu Asp Ser
100 105 110

ttc ctt att aca tca atg gca tat gac cga tat gtt gcc ata tgt cac      384
Phe Leu Ile Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
115 120 125

cct ctc cac tac act gtc atc atg agg gaa gag ctc tgt gtc ttc tta      432
Pro Leu His Tyr Thr Val Ile Met Arg Glu Glu Leu Cys Val Phe Leu
130 135 140

gtg gct gta tct tgg att ctg tct tgt gcc agc tcc ctc tct cac acc      480
Val Ala Val Ser Trp Ile Leu Ser Cys Ala Ser Ser Leu Ser His Thr
145 150 155 160

att ctc ctg acc ogg ctg tct ttc tgt gct gcg aac acc atc ccc cat      528
Leu Leu Leu Thr Arg Leu Ser Phe Cys Ala Ala Asn Thr Ile Pro His
165 170 175

gtc ttc tgt gac ctt gct gcc ctg ctc aag ctg tcc tgc tca gat atc      576
Val Phe Cys Asp Leu Ala Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile
180 185 190

ttc ctc aat gag ctg gtc atg ttc aca gta ggg gtc gtc gtc att acc      624
Phe Leu Asn Glu Leu Val Met Phe Thr Val Gly Val Val Val Ile Thr
195 200 205

ctg cca ttc atg tgt atc ctg gta tca tat ggc tac att ggg gcc acc      672
Leu Pro Phe Met Cys Ile Leu Val Ser Tyr Gly Tyr Ile Gly Ala Thr
210 215 220

atc ctg agg gtc cct tca acc aaa ggg atc cac aaa gca ttg tcc aca      720
Ile Leu Arg Val Pro Ser Thr Lys Gly Ile His Lys Ala Leu Ser Thr
225 230 235 240

tgt ggc tcc cat ctc tct gtg gtg tct ctc tat tat ggg tca ata ttt      768
Cys Gly Ser His Leu Ser Val Val Ser Leu Tyr Tyr Gly Ser Ile Phe
245 250 255

ggc cag tac ctt ttc cgg act gta agc agt tct att gac aag gat gtc      816
Gly Gln Tyr Leu Phe Pro Thr Val Ser Ser Ser Ile Asp Lys Asp Val
260 265 270

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att gtg gct ctc atg tac acg gtg gtc aca ccc atg ttg aac ccc ttt 864
 ile val ala leu met tyr thr val val thr pro met leu asn pro phe
 275 280 285

atc tac agc ctt agg aac agg gac atg aaa gag gcc ctt ggg aaa ctc 913
 ile tyr ser leu arg asn arg asp met lys glu ala leu gly lys leu
 290 295 300

ttc agt aga gca aca ttt ttc tct tgg tga 942
 phe ser arg ala thr phe phe ser trp
 305 310

<210> 476
 <211> 313
 <212> PRT
 <213> Homo Sapiens

<400> 476

met ser pro glu asn gln ser ser val ser glu phe leu leu leu gly
 1 5 10 15

leu pro ile arg pro glu gln gln ala val phe phe thr leu phe leu
 20 25 30

gly met tyr leu thr thr val leu gly asn leu leu ile met leu leu
 35 40 45

ile gln leu asp ser his leu his thr pro met tyr phe phe leu ser
 50 55 60

his leu ala leu thr asp ile ser phe ser ser val thr val pro lys
 65 70 75 80

met leu met asp met arg thr lys tyr lys ser ile leu tyr glu glu
 85 90 95

cys ile ser gln met tyr phe phe ile phe phe thr asp leu asp ser
 100 105 110

phe leu ile thr ser met ala tyr asp arg tyr val ala ile cys his
 115 120 125

pro leu his tyr thr val ile met arg glu glu leu cys val phe leu
 130 135 140

val ala val ser trp ile leu ser cys ala ser ser leu ser his thr
 145 150 155 160

leu leu leu thr arg leu ser phe cys ala ala asn thr ile pro his

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165 170 175
 Val Phe Cys Asp Leu Ala Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile
 180 185 190
 Phe Leu Asn Glu Leu Val Met Phe Thr Val Gly Val Val Val Ile Thr
 195 200 205
 Leu Pro Phe Met Cys Ile Leu Val Ser Tyr Gly Tyr Ile Gly Ala Thr
 210 215 220
 Ile Leu Arg Val Pro Ser Thr Lys Gly Ile His Lys Ala Leu Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Ser Val Val Ser Leu Tyr Tyr Gly Ser Ile Phe
 245 250 255
 Gly Gln Tyr Leu Phe Pro Thr Val Ser Ser Ser Ile Asp Lys Asp Val
 260 265 270
 Ile Val Ala Leu Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Gly Lys Leu
 290 295 300
 Phe Ser Arg Ala Thr Phe Phe Ser Trp
 305 310

<210> 477
 <211> 996
 <212> DNA
 <213> Homo Sapiens
 <220>
 <221> CDS
 <222> (1)..(993)
 <223>

<400> 477
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 1 5 10 15
 atg gag agc gga aac caa tca aca gtg act gaa ttt atc ttc act gga 96
 Met Glu Ser Gly Asn Gln Ser Thr Val Thr Glu Phe Ile Phe Thr Gly
 20 25 30
 ttc cct cag ctt cag gat ggt agt ctc ctg tac ttc ttt cct tta ctt 144
 Phe Pro Gln Leu Gln Asp Gly Ser Leu Leu Tyr Phe Phe Pro Leu Leu

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35	40	45	
ttc atc tat act ttt att atc att gat aac tta tta atc ttc tct gct			192
Phe Ile Tyr Thr Phe Ile Ile Ile Asp Asn Leu Leu Ile Phe Ser Ala			
50	55	60	
gta agg ctg gac acc cat ctc cac aac ccc atg tat aat ttt atc agt			240
Val Arg Leu Asp Thr His Leu His Asn Pro Met Tyr Asn Phe Ile Ser			
65	70	75	80
ata ttt tcc ttt ctg gag atc tgg tac acc aca gcc acc att ccc aag			288
Ile Phe Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys			
85	90	95	
atg ctc tcc aac ctc atc agt gaa aag aag gcc atc tca atg act ggc			336
Met Leu Ser Asn Leu Ile Ser Glu Lys Lys Ala Ile Ser Met Thr Gly			
100	105	110	
tgc atc ttg cag atg tat ttc ttc cac tca ctt gaa aac tca gag ggg			384
Cys Ile Leu Gln Met Tyr Phe Phe His Ser Leu Glu Asn Ser Glu Gly			
115	120	125	
atc ttg ctg acc acc atg gcc att gac aga tac gtt gcc atc tgc aac			432
Ile Leu Leu Thr Thr Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn			
130	135	140	
cct ctt cgc tat cca atg atc atg acc ccc cgg ctc tgt gct caa ctc			480
Pro Leu Arg Tyr Gln Met Ile Met Thr Pro Arg Leu Cys Ala Gln Leu			
145	150	155	160
tct gca ggt tcc tgc ctc ttc ggt ttc ctt atc ctg att ccc gag att			528
Ser Ala Gly Ser Cys Leu Phe Gly Phe Leu Ile Leu Leu Pro Glu Ile			
165	170	175	
gtg atg att tcc aca ctg cct ttc tgt ggg ccc aac caa atc cat cag			576
Val Met Ile Ser Thr Leu Pro Phe Cys Gly Pro Asn Gln Ile His Gln			
180	185	190	
atc ttc tgt gac ttg gtc cct gtg cta agc ctg gcc tgt aca gac acg			624
Ile Phe Cys Asp Leu Val Pro Val Leu Ser Leu Ala Cys Thr Asp Thr			
195	200	205	
tcc atg att ctg att gag gat gtg att cat gct gtg acc atc atc att			672
Ser Met Ile Leu Ile Glu Asp Val Ile His Ala Val Thr Ile Ile Ile			
210	215	220	
acc ttc cta atc att gcc ctg tcc tat gta aga att gtc act gtg ata			720
Thr Phe Leu Ile Ile Ala Leu Ser Tyr Val Arg Ile Val Thr Val Ile			
225	230	235	240
ttg agg att ccc tct tct gaa ggg agg caa aag gct ttt tct acc tgt			768
Leu Arg Ile Pro Ser Ser Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys			
245	250	255	
gca ggc cac ctc atg gtc ttc ccg ata ttc ttt ggc agt gta tca ctc			816
Ala Gly His Leu Met Val Phe Pro Ile Phe Phe Gly Ser Val Ser Leu			
260	265	270	
atg tac ttg cgt ttc agc gac act tat cca cca gtt ttg gac aca gcc			864
Met Tyr Leu Arg Phe Ser Asp Thr Tyr Pro Pro Val Leu Asp Thr Ala			
275	280	285	

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att gca ctg atg ttt act gta ctt gct cca ttc ttc aat ccc atc att      912
ile ala leu met phe thr val leu ala pro phe phe asn pro ile ile
      290                      295                      300

tat agc ctg aga aac aag gac atg aac aat gcg att aaa aaa ctg ttc      960
tyr ser leu arg asn lys asp met asn asn ala ile lys lys leu phe
      305                      310                      315                      320

tgt ctt caa aaa gtc ttg aac aag cct gga ggt taa                      996
cys leu gln lys val leu asn lys pro gly gly
      325                      330

<210> 478
<211> 321
<212> PRT
<213> Homo Sapiens

<400> 478

Met Cys Trp Thr Met Pro Ser Pro Phe Thr Gly Ser Ser Thr Arg Asn
1      5      10      15

Met Glu Ser Gly Asn Gln Ser Thr Val Thr Glu Phe Ile Phe Thr Gly
20     25     30

Phe Pro Gln Leu Gln Arg Gly Ser Leu Leu Tyr Phe Phe Pro Leu Leu
35     40     45

Phe Ile Tyr Thr Phe Ile Ile Ile Asp Asn Leu Leu Ile Phe Ser Ala
50     55     60

Val Arg Leu Asp Thr His Leu His Asn Pro Met Tyr Asn Phe Ile Ser
65     70     75     80

Ile Phe Ser Phe Leu Glu Ile Top Tyr Thr Thr Ala Thr Ile Pro Lys
85     90     95

Met Leu Ser Asn Leu Ile Ser Glu Lys Lys Ala Ile Ser Met Thr Gly
100    105    110

Cys Ile Leu Gln Met Tyr Phe Phe His Ser Leu Glu Asn Ser Glu Gly
115    120    125

Ile Leu Leu Thr Thr Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn
130    135    140

Pro Leu Arg Tyr Gln Met Ile Met Thr Pro Arg Leu Cys Ala Gln Leu
145    150    155    160

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Ser Ala Gly Ser Cys Leu Phe Gly Phe Leu Ile Leu Leu Pro Glu Ile
165 170 175

Val Met Ile Ser Thr Leu Pro Phe Cys Gly Pro Asn Gln Ile His Gln
180 185 190

Ile Phe Cys Asp Leu Val Pro Val Leu Ser Leu Ala Cys Thr Asp Thr
195 200 205

Ser Met Ile Leu Ile Glu Asp Val Ile His Ala Val Thr Ile Ile Ile
210 215 220

Thr Phe Leu Ile Ile Ala Leu Ser Tyr Val Arg Ile Val Thr Val Ile
225 230 235 240

Leu Arg Ile Pro Ser Ser Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys
245 250 255

Ala Gly His Leu Met Val Phe Pro Ile Phe Phe Gly Ser Val Ser Leu
260 265 270

Met Tyr Leu Arg Phe Ser Asp Thr Tyr Pro Pro Val Leu Asp Thr Ala
275 280 285

Ile Ala Leu Met Phe Thr Val Leu Ala Pro Phe Phe Asn Pro Ile Ile
290 295 300

Tyr Ser Leu Arg Asn Lys Asp Met Asn Asn Ala Ile Lys Lys Leu Phe
305 310 315 320

Cys Leu Gln Lys Val Leu Asn Lys Pro Gly Gly
325 330

<210> 479
<211> 945
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(942)
<223>

<400> 479
atg gag aca aga aat tac tct gcc atg act gaa ttc ttt ctg gtc ggg 48
Met Glu Thr Arg Asn Tyr Ser Ala Met Thr Glu Phe Phe Leu Val Gly
1 5 10 15
ctt tcc caa tat cca gag ctc cag ctt ctt ctg ttc ctg ctc tgc ctc 96

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Leu Ser Gln Tyr Pro Glu Leu Gln Leu Phe Leu Phe Leu Leu Cys Leu
      20      25      30
atc atg tac atg ata atc ctc ctg gga aat agc ctc ctc att atc atc      144
ile Met Tyr Met ile ile Leu Leu Gly Asn Ser Leu Leu ile ile ile
      35      40      45
aac atc ttg gat tct cgc ctc cat act ccc atg tat ttc ttt ctt gga      192
Thr ile Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly
      50      55      60
aac ctc tca ttc ttg gac atc tgt tac aca tcc tca tcc att cct cca      240
Asn Leu Ser Phe Leu Asp ile Cys Tyr Thr Ser Ser ile Pro Pro
      65      70      75      80
atg ctt att ata ttt atg tct gag aga aaa tcc atc tcc ttc att ggc      298
Met Leu ile ile Phe Met Ser Glu Arg Lys Ser ile Ser Phe ile Gly
      85      90      95
tgt gct ctg cag atg gtt gtg tcc ctt ggc ttg ggc tcc act gag tgt      336
Cys Ala Leu Gln Met Val Val Ser Leu Gly Leu Gly Ser Thr Glu Cys
      100      105      110
gtc ctc ctg gct gtg atg gcc tat gac cac tat gtg gcc atc tgc aac      384
Val Leu Ala Val Met Ala Tyr Asp His Tyr Val Ala ile Cys Asn
      115      120      125
cca ctg agg tac tcc atc atc atg aac gga gtg ctg tat gtg caa atg      432
Pro Leu Arg Tyr Ser ile ile Met Asn Gly Val Leu Tyr Val Gln Met
      130      135      140
gct gca tgg tcc tgg atc ata gcc tgt ctg acc tcc cta ttg caa aca      480
Ala Ala Trp Ser Trp ile ile Gly Cys Leu Thr Ser Leu Leu Gln Thr
      145      150      155      160
gtt ctg aca atg atg ttg cct ttc tgt ggg aat aat gtc att gat cat      528
Val Leu Thr Met Met Leu Pro Phe Cys Gly Asn Asn Val ile Asp His
      165      170      175
att acc tgt gaa att ttg gcc ctt cta aaa ctt gtt tgt tca gat atc      576
ile Thr Cys Glu ile Leu Ala Leu Leu Lys Leu Val Cys Ser Asp ile
      180      185      190
acc atc aat gtg ctt atc atg aca gtg aca aat att gtt tca ctg gtg      624
Thr ile Asn Val Leu ile Met Thr Val Thr Asn ile Val Ser Leu Val
      195      200      205
att ctt cta ctg tta att ttc atc tcc tat gtg ttt att ctc tct tcc      672
ile Leu Leu Leu Leu ile Phe ile Ser Tyr Val Phe ile Leu Ser Ser
      210      215      220
atc ctg aga att aat tgt gct gag gga aga aag aaa gcc ttc tct acc      720
ile Leu Arg ile Asn Cys Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr
      225      230      235      240
tgt tca gcg cac tgg att gtg gtc atc tta ttc tac ggt tca gcc ctt      768
Cys Ser Ala His Ser ile Val Val ile Leu Phe Tyr Gly Ser Ala Leu
      245      250      255
ttt atg tac atg aaa ccc aag tca aag aac act aat aca tct gat gag      816
Phe Met Tyr Met Lys Pro Lys Ser Lys Asn Thr Asn Thr Ser Asp Glu

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                260                265                270
att att ggg ctg tct tat gga gtc gta agc cca atg tta aat ccc atc      864
ile ile gly leu ser tyr gly val val ser pro met leu asn pro ile
      275                280                285

atc tat agc ctc agg aat aaa gag gtc aaa gag gct gta aag aaa gtc      912
ile tyr ser leu arg asn lys glu val lys glu ala val lys lys val
      290                295                300

ctg agc aga cat ctg cat tta ttg aaa atg tga      945
leu ser arg his leu his leu leu lys met
305                310

<210> 480
<211> 344
<212> PRT
<213> Homo Sapiens

<400> 480
Met Glu Thr Arg Asn Tyr Ser Ala Met Thr Glu Phe Phe Leu Val Gly
1      5      10      15

Leu Ser Gln Tyr Pro Glu Leu Gln Leu Phe Leu Phe Leu Leu Cys Leu
20      25      30

Ile Met Tyr Met Ile Ile Leu Leu Gly Asn Ser Leu Leu Ile Ile Ile
35      40      45

Thr Ile Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly
50      55      60

Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ser Ser Ile Pro Pro
65      70      75      80

Met Leu Ile Ile Phe Met Ser Glu Arg Lys Ser Ile Ser Phe Ile Gly
85      90      95

Cys Ala Leu Gln Met Val Val Ser Leu Gly Leu Gly Ser Thr Glu Cys
100     105     110

Val Leu Leu Ala Val Met Ala Tyr Asp His Tyr Val Ala Ile Cys Asn
115     120     125

Pro Leu Arg Tyr Ser Ile Ile Met Asn Gly Val Leu Tyr Val Gln Met
130     135     140

Ala Ala Trp Ser Trp Ile Ile Gly Cys Leu Thr Ser Leu Leu Gln Thr
145     150     155     160

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Val Leu Thr Met Met Leu Pro Phe Cys Gly Asn Asn Val Ile Asp His
165 170 175

Ile Thr Cys Glu Ile Leu Ala Leu Leu Lys Leu Val Cys Ser Asp Ile
180 185 190

Thr Ile Asn Val Leu Ile Met Thr Val Thr Asn Ile Val Ser Leu Val
195 200 205

Ile Leu Leu Leu Leu Ile Phe Ile Ser Tyr Val Phe Ile Leu Ser Ser
210 215 220

Ile Leu Arg Ile Asn Cys Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr
225 230 235 240

Cys Ser Ala His Ser Ile Val Val Ile Leu Phe Tyr Gly Ser Ala Leu
245 250 255

Phe Met Tyr Met Lys Pro Lys Ser Lys Asn Thr Asn Thr Ser Asp Glu
260 265 270

Ile Ile Gly Leu Ser Tyr Gly Val Val Ser Pro Met Leu Asn Pro Ile
275 280 285

Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Val Lys Lys Val
290 295 300

Leu Ser Arg His Leu His Leu Leu Lys Met
305 310

<210> 481
<211> 972
<212> DNA
<213> Homo Sapiens

<220>
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<222> (1)..(969)
<223>

<400> 481
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Met Ser Thr Leu Pro Thr Glu Ile Ala Pro Asn Ser Ser Thr Ser Met
1 5 10 15
gcc ccc acc ttc ttg ctg gtg ggc atg cca ggc cta tca ggt gca ccc 96
Ala Pro Thr Phe Leu Leu Val Gly Met Pro Gly Leu Ser Gly Ala Pro
20 25 30

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tcc tgg tgg aca ttg ccc ctc att gct gtc tac ctt ctc tct gca ctg      144
Ser Trp Trp Thr Leu Pro Leu Ile Ala Val Tyr Leu Leu Ser Ala Leu
      35              40              45

gga aat ggc acc atc ctc tgg atc att gcc ctg cag ccc gcc ctg cac      192
Gly Asn Gly Thr Ile Leu Trp Ile Ile Ala Leu Gln Pro Ala Leu His
      50              55              60

cgc cca atg cac ttc ctc ttc ttg ctt agt gtg tct gat att gga      240
Arg Pro Met His Phe Phe Leu Phe Leu Leu Ser Val Ser Asp Ile Gly
      65              70              75              80

ttg gtc act gcc ctg atg ccc aca ctg ctg ggc atc gcc ctt gct ggt      288
Leu Val Thr Ala Leu Met Pro Thr Leu Leu Gly Ile Ala Leu Ala Gly
      85              90              95

gct cac act gtc cct gcc tca gcc tgc ctt cta cag atg gtt ttt atc      336
Ala His Thr Val Pro Ala Ser Ala Cys Leu Leu Gln Met Val Phe Ile
      100             105             110

cat gtc ttt tct gtc atg gag tcc tct gtc ttg ctc gcc atg tcc att      384
His Val Phe Ser Val Met Glu Ser Ser Val Leu Leu Ala Met Ser Ile
      115             120             125

gat cgg gca ctg gcc atc tgc cga cct ctc cac tac cca ggc ctc ctc      432
Asp Arg Ala Leu Ala Ile Cys Arg Pro Leu His Tyr Pro Ala Leu Leu
      130             135             140

acc aat ggt gta att agc aaa atc agc ctg gcc att tct ttt cga tgc      480
Thr Asn Gly Val Ile Ser Lys Ile Ser Leu Ala Ile Ser Phe Arg Cys
      145             150             155

ctg ggt ctc cat ctg ccc ctg cca ttc ctg ctg gcc tcc atg ccc tac      528
Leu Gly Leu His Leu Pro Leu Pro Phe Leu Leu Ala Tyr Met Pro Tyr
      165             170             175

tgc ctc cca cag gtc cta acc cat tct tat tgc ttg cat cca gat gtg      576
Cys Leu Pro Gln Val Leu Thr His Ser Tyr Cys Leu His Pro Asp Val
      180             185             190

gct cgt ttg gcc tgc cca gaa gct tgg ggt gca gcc tac agc cta ttt      624
Ala Arg Leu Ala Cys Pro Glu Ala Trp Gly Ala Ala Tyr Ser Leu Phe
      195             200             205

gtg gtt ctt tca gcc atg ggt ttg gac ccc ctg ctt att ttc ttc tcc      672
Val Val Leu Ser Ala Met Gly Leu Asp Pro Leu Leu Ile Phe Phe Ser
      210             215             220

tat ggc ctg att ggc aag gtg ttg caa ggt gtg gag tcc aga gag gat      720
Tyr Gly Leu Ile Gly Lys Val Leu Gln Gly Val Glu Ser Arg Glu Asp
      225             230             235             240

cgc tgg aag gct ggt caa acc tgt gct gcc cac ctc tct gca gtg ctc      768
Arg Trp Lys Ala Gly Gln Thr Cys Ala Ala His Leu Ser Ala Val Leu
      245             250             255

ctc ttc tat atc cct atg atc ctc ctg gca ctg att aac cat cct gag      816
Leu Phe Tyr Ile Pro Met Ile Leu Leu Ala Leu Ile Asn His Pro Glu
      260             265             270

ctg cca atc act cag cat acc cat act ctt cta tcc tat gtc cat ttc      864

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Leu Pro Ile Thr Gln His Thr His Thr Leu Leu Ser Tyr Val His Phe
 275 280 285
 ctt ctt cct coa ttg ata aac cct att ctc tat agt gtc aag atg aag 912
 Leu Leu Pro Pro Leu Ile Asn Pro Ile Leu Tyr Ser Val Lys Met Lys
 290 295 300
 gag att aga aag aga ata ctc aac agg ttg cag ccc agg aag gtc ggt 960
 Glu Ile Arg Lys Arg Ile Leu Asn Arg Leu Gln Pro Arg Lys Val Gly
 305 310 315 320
 ggt gct cag tga 972
 Gly Ala Gln

 <210> 432
 <211> 323
 <212> FRT
 <213> Homo Sapiens
 <400> 432
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 1 5 10 15
 Ala Pro Thr Phe Leu Leu Val Gly Met Pro Gly Leu Ser Gly Ala Pro
 20 25 30
 Ser Trp Trp Thr Leu Pro Leu Ile Ala Val Tyr Leu Leu Ser Ala Leu
 35 40 45
 Gly Asn Gly Thr Ile Leu Trp Ile Ile Ala Leu Gln Pro Ala Leu His
 50 55 60
 Arg Pro Met His Phe Phe Leu Phe Leu Leu Ser Val Ser Asp Ile Gly
 65 70 75 80
 Leu Val Thr Ala Leu Met Pro Thr Leu Leu Gly Ile Ala Leu Ala Gly
 85 90 95
 Ala His Thr Val Pro Ala Ser Ala Cys Leu Leu Gln Met Val Phe Ile
 100 105 110
 His Val Phe Ser Val Met Glu Ser Ser Val Leu Leu Ala Met Ser Ile
 115 120 125
 Asp Arg Ala Leu Ala Ile Cys Arg Pro Leu His Tyr Pro Ala Leu Leu
 130 135 140
 Thr Asn Gly Val Ile Ser Lys Ile Ser Leu Ala Ile Ser Phe Arg Cys
 145 150 155 160

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Leu Gly Leu His Leu Pro Leu Pro Phe Leu Leu Ala Tyr Met Pro Tyr
165 170 175

Cys Leu Pro Gln Val Leu Thr His Ser Tyr Cys Leu His Pro Asp Val
180 185 190

Ala Arg Leu Ala Cys Pro Glu Ala Trp Gly Ala Ala Tyr Ser Leu Phe
195 200 205

Val Val Leu Ser Ala Met Gly Leu Asp Pro Leu Leu Ile Phe Phe Ser
210 215 220

Tyr Gly Leu Ile Gly Lys Val Leu Gln Gly Val Glu Ser Arg Glu Asp
225 230 235 240

Arg Trp Lys Ala Gly Gln Thr Cys Ala Ala His Leu Ser Ala Val Leu
245 250 255

Leu Phe Tyr Ile Pro Met Ile Leu Leu Ala Leu Ile Asn His Pro Glu
260 265 270

Leu Pro Ile Thr Gln His Thr His Thr Leu Leu Ser Tyr Val His Phe
275 280 285

Leu Leu Pro Pro Leu Ile Asn Pro Ile Leu Tyr Ser Val Lys Met Lys
290 295 300

Glu Ile Arg Lys Arg Ile Leu Asn Arg Leu Gln Pro Arg Lys Val Gly
305 310 315 320

Gly Ala Gln

<210> 483
<211> 1047
<212> DNA
<213> Homo Sapiens

<220>
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<222> (1)..(1044)
<223>

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Met Asp Leu Gly Asn Ser Gly Asn Asp Ser Val Val Thr Lys Phe Val

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1	5	10	15	
ctg ctg ggc ctc acc gag act gaa gct cta cag ccc atc ctc ttt gtc				96
Leu Leu Gly Leu Thr Glu Thr Ala Ala Leu Gln Pro Ile Leu Phe Val	20	35	30	
atc ttc ctt ctt gct tac gtc act acc att gga ggc acc ctc agc atc				144
Ile Phe Leu Leu Ala Tyr Val Thr Thr Ile Gly Gly Thr Leu Ser Ile	35	40	45	
ctg gcg gcc atc ctt atg gaa acc aaa ctc cac agc ccc atg tac ttc				192
Leu Ala Ala Ile Leu Met Glu Thr Lys Leu His Ser Pro Met Tyr Phe	50	55	60	
ttc ctg ggg aac ttg tcc ctg cca gat gtg ggg tgt gtc agt gtc act				240
Phe Leu Gly Asn Leu Ser Leu Pro Asp Val Gly Cys Val Ser Val Thr	65	70	75	80
gtc cct gcc atg ctg agc cat ttc ata tcc aac gac aga agc att ccc				288
Val Pro Ala Met Leu Ser His Phe Ile Ser Asn Asp Arg Ser Ile Pro	85	90	95	
tat aag gcc tgc ctc tcc gag ctc ttc ttc cac ctc ctg gct ggg				336
Tyr Lys Ala Cys Leu Ser Glu Leu Phe Phe Phe His Leu Leu Ala Gly	100	105	110	
gca gac tgc ttc ttg ctg acc atc atg gcc tat gac cgc tat ctg gcc				384
Ala Asp Cys Phe Leu Leu Thr Ile Met Ala Tyr Asp Arg Tyr Leu Ala	115	120	125	
atc tgc cag tcc ctc acc tac agc agc cgc atg agc tgg gga atc cag				432
Ile Cys Gln Ser Leu Thr Tyr Ser Ser Arg Met Ser Trp Gly Ile Gln	130	135	140	
caa gcc ctg gtg ggc atg tca tgt gtc ttt tcc ttc acc aat gca ctg				480
Gln Ala Leu Val Gly Met Ser Cys Val Phe Ser Phe Thr Asn Ala Leu	145	150	155	160
acc caa act gtt gcc ctg tct cct ctt aac ttc tgt ggc ccc aat gtg				528
Thr Gln Thr Val Ala Leu Ser Pro Leu Asn Phe Cys Gly Pro Asn Val	165	170	175	
atc aat cac ttc tac tgt gac ctc cca cag ccc ttc cag ctc tcc tgc				576
Ile Asn His Phe Tyr Cys Asp Leu Pro Gln Pro Phe Gln Leu Ser Cys	180	185	190	
gcc agt gtt cat ctc aat ggg cag ttg ctg ttt gta gca gca gct ttc				624
Ala Ser Val His Leu Asn Gly Gln Leu Leu Phe Val Ala Ala Ala Phe	195	200	205	
atg ggt gtg gcc ccc ttg gtc ctc atc act gtg tcc tat gcc cat gtg				672
Met Gly Val Ala Pro Leu Val Leu Ile Thr Val Ser Tyr Ala His Val	210	215	220	
gca gct gca gtc ctg cga atc cgc tct gca gag ggc aaa aag aaa gcc				720
Ala Ala Ala Val Leu Arg Ile Arg Ser Ala Glu Gly Lys Lys Lys Ala	225	230	235	240
ttc tcc acg tgt agt tcc cac ctc act gtg gtg ggc atc ttc tat ggg				768
Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Gly Ile Phe Tyr Gly	245	250	255	

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acg ggc gtc ttc agc tac aca agg ctg ggt tca gtc gag tct tcg gac      816
Thr Gly Val Phe Ser Tyr Thr Arg Leu Gly Ser Val Glu Ser Ser Asp
260                               265                               270

aag gac aag ggc att ggc atc ctc aac act gtc atc agc ccc atg ctg      864
Lys Asp Lys Gly Ile Gly Ile Leu Asn Thr Val Ile Ser Pro Met Leu
275                               280                               285

aac cca ctc atc tac tgg aca tct ctg ctg gac gtc ggg tgc atc agt      912
Asn Pro Leu Ile Tyr Trp Thr Ser Leu Leu Asp Val Gly Cys Ile Ser
290                               295                               300

cac tgt tcc tcc gat gct ggc gtg tct cca ggc cca cca gtc cag agt      960
His Cys Ser Ser Asp Ala Gly Val Ser Pro Gly Pro Pro Val Gln Ser
305                               310                               315                               320

tcc cta tgc tgc ctg cag ttc aca gct ctt ctt tcc cca cct cct ggc      1008
Ser Leu Cys Cys Leu Gln Phe Thr Ala Leu Leu Ser Pro Pro Pro Gly
325                               330                               335

tgg ggt gga ctg tca cct ctt aat agc cat ggc cta tga      1047
Trp Gly Gly Leu Ser Pro Leu Asn Ser His Gly Leu
340                               345

<210> 484
<211> 348
<212> PRT
<213> Homo Sapiens

<400> 484
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1 5 10 15

Leu Leu Gly Leu Thr Glu Thr Ala Ala Leu Gln Pro Ile Leu Phe Val
20 25 30

Ile Phe Leu Leu Ala Tyr Val Thr Thr Ile Gly Gly Thr Leu Ser Ile
35 40 45

Leu Ala Ala Ile Leu Met Glu Thr Lys Leu His Ser Pro Met Tyr Phe
50 55 60

Phe Leu Gly Asn Leu Ser Leu Pro Asp Val Gly Cys Val Ser Val Thr
65 70 75 80

Val Pro Ala Met Leu Ser His Phe Ile Ser Asn Asp Arg Ser Ile Pro
85 90 95

Tyr Lys Ala Cys Leu Ser Glu Leu Phe Phe Phe His Leu Leu Ala Gly
100 105 110

Ala Asp Cys Phe Leu Leu Thr Ile Met Ala Tyr Asp Arg Tyr Leu Ala

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115 120 125
 Ile Cys Gln Ser Leu Thr Tyr Ser Ser Arg Met Ser Trp Gly Ile Gln
 130 135 140
 Gln Ala Leu Val Gly Met Ser Cys Val Phe Ser Phe Thr Asn Ala Leu
 145 150 155 160
 Thr Gln Thr Val Ala Leu Ser Pro Leu Asn Phe Cys Gly Pro Asn Val
 165 170 175
 Ile Asn His Phe Tyr Cys Asp Leu Pro Gln Pro Phe Gln Leu Ser Cys
 180 185 190
 Ala Ser Val His Leu Asn Gly Gln Leu Leu Phe Val Ala Ala Ala Phe
 195 200 205
 Met Gly Val Ala Pro Leu Val Leu Ile Thr Val Ser Tyr Ala His Val
 210 215 220
 Ala Ala Ala Val Leu Arg Ile Arg Ser Ala Glu Gly Lys Lys Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Gly Ile Phe Tyr Gly
 245 250 255
 Thr Gly Val Phe Ser Tyr Thr Arg Leu Gly Ser Val Glu Ser Ser Asp
 260 265 270
 Lys Asp Lys Gly Ile Gly Ile Leu Asn Thr Val Ile Ser Pro Met Leu
 275 280 285
 Asn Pro Leu Ile Tyr Trp Thr Ser Leu Leu Asp Val Gly Cys Ile Ser
 290 295 300
 His Cys Ser Ser Asp Ala Gly Val Ser Pro Gly Pro Pro Val Gln Ser
 305 310 315 320
 Ser Leu Cys Cys Leu Gln Phe Thr Ala Leu Leu Ser Pro Pro Pro Gly
 325 330 335
 Trp Gly Gly Leu Ser Pro Leu Asn Ser His Gly Leu
 340 345
 <210> 485
 <211> 1053

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<212> DNA
 <213> Homo Sapiens

<220>
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 <222> (1)..(1050)
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48
Met Tyr His Arg Asn Ile Phe Ile Xaa Ile His Gly Phe Glu Gly Pro
1      5      10      15

tat tat att ctc tta aag ata ctg gag aca gag cat gat ggg aca aaa      96
Tyr Tyr Ile Leu Leu Lys Ile Leu Glu Thr Glu His Asp Gly Thr Lys
20     25     30

tca aac cag cat ctc aga ctt cct gct cct ggc ctg ccc atc caa cca      144
Ser Asn Gln His Leu Arg Leu Pro Ala Pro Gly Leu Pro Ile Gln Pro
35     40     45

gag cag caa aac ctg tgc tat ggc ctg ttc ttg gcc atg tat ctt acc      192
Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu Ala Met Tyr Leu Thr
50     55     60

acc ctc ctg ggg aac ctc ctc atc att gtc ctc att cga ctg gac tcc      240
Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu Ile Arg Leu Asp Ser
65     70     75     80

cat ctc cac acg cct gtg tat ttg ttt ctc agc aac ttg tcc ttc tct      288
His Leu His Thr Pro Val Tyr Leu Phe Leu Ser Asn Leu Ser Phe Ser
85     90     95

gac ctc tgc ttt tcc tca gtc ada atg ccc aaa ttg ctg cag aac atg      336
Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys Leu Leu Gln Asn Met
100    105    110

cag aac caa gac cca tcc atc ccc tat gca gac tgc ctg acc caa atg      384
Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp Cys Leu Thr Gln Met
115    120    125

tac ttc ttc ttg tat ttt tgg gat cta gag agc ttc ctc ctt gtg gcc      432
Tyr Phe Phe Leu Tyr Phe Ser Asp Leu Glu Ser Phe Leu Leu Val Ala
130    135    140

atg gcc tat gac cgc tat gtg gcc atc tgc ttc ccc atg cac tac acc      480
Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Met His Tyr Thr
145    150    155    160

gcc atc tgc ttc ctc ctg cac tac acc gcc atc atg agc ccc atg ctc      528
Ala Ile Cys Phe Leu Leu His Tyr Thr Ala Ile Met Ser Pro Met Leu
165    170    175

tgt ctc tcc gtg gtg ggc ctg tcc tgg gtg ctg acc acc ttc cat gcc      576

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Cys Leu Ser Val Val Ala Leu Ser Trp Val Leu Thr Thr Phe His Ala
180 185 190
atg tta cac act tta ctc atg ggc agg ttg tgt ttt tgt gca gac aat 624
Met Leu His Thr Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asp Asn
195 200 205
gtg atc ccc cac ttt ttc tgt gat atg tct gct ctg ctg aag ctg gcc 672
Val Ile Pro His Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala
210 215 220
tgc tct gac act cga gtt aat gaa tgg gtg ata ttt atc atg gga ggg 720
Cys Ser Asp Thr Arg Val Asn Glu Trp Val Ile Phe Ile Met Gly Gly
225 230 235 240
ctc att ctt gtc atc cca ttc cta ctc atc ctt ggg tcc tat gca aga 768
Leu Ile Leu Val Ile Pro Phe Leu Leu Ile Leu Gly Ser Tyr Ala Arg
245 250 255
att gtc tcc tcc atc ctc aag gtc cct tct tct aag ggt atc tgc aag 816
Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser Lys Gly Ile Cys Lys
260 265 270
ggc ttc tct act tgt ggc tcc ccc ctc tct gtg gtg tca ctg ttc tat 864
Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr
275 280 285
ggg acc gtt att ggt ctc tac tta tgc cca tca gct aat agt tct act 912
Gly Thr Val Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Ser Ser Thr
290 295 300
cta aag gac act gtc atg gct atg atg tac act gtg gtg acc cct atg 960
Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met
305 310 315 320
ctg acc ccc ttc atc tac agc ctg agg aac aga gac atg aag gga gcc 1008
Leu Thr Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala
325 330 335
ctg gaa agg gtc att tgt aaa agg aaa aat ccc ttc ctt cta tga 1053
Leu Glu Arg Val Ile Cys Lys Arg Lys Asn Pro Phe Leu Leu
340 345 350

<210> 486
<211> 350
<212> PRT
<213> Homo Sapiens

<220>
<221> misc_feature
<222> (9)..(9)
<223> The 'Xaa' at location 9 stands for Tyr, Cys, Ser, or Phe.

<220>
<221> misc_feature
<222> (26)..(26)
<223> any nucleotide

<400> 486
Met Tyr His Arg Asn Ile Phe Ile Xaa Ile His Gly Phe Glu Gly Pro

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1 5 10 15
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 20 25 30
 Ser Asn Gln His Leu Arg Leu Pro Ala Pro Gly Leu Pro Ile Gln Pro
 35 40 45
 Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu Ala Met Tyr Leu Thr
 50 55 60
 Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu Ile Arg Leu Asp Ser
 65 70 75 80
 His Leu His Thr Pro Val Tyr Leu Phe Leu Ser Asn Leu Ser Phe Ser
 85 90 95
 Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys Leu Leu Gln Asn Met
 100 105 110
 Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp Cys Leu Thr Gln Met
 115 120 125
 Tyr Phe Phe Leu Tyr Phe Ser Asp Leu Glu Ser Phe Leu Leu Val Ala
 130 135 140
 Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Met His Tyr Thr
 145 150 155 160
 Ala Ile Cys Phe Leu Leu His Tyr Thr Ala Ile Met Ser Pro Met Leu
 165 170 175
 Cys Leu Ser Val Val Ala Leu Ser Trp Val Leu Thr Thr Phe His Ala
 180 185 190
 Met Leu His Thr Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asp Asn
 195 200 205
 Val Ile Pro His Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala
 210 215 220
 Cys Ser Asp Thr Arg Val Asn Glu Trp Val Ile Phe Ile Met Gly Gly
 225 230 235 240
 Leu Ile Leu Val Ile Pro Phe Leu Leu Ile Leu Gly Ser Tyr Ala Arg
 245 250 255

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PCT/BE01/00162

Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser Lys Gly Ile Cys Lys
260 265 270

Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr
275 280 285

Gly Thr Val Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Ser Ser Thr
290 295 300

Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met
305 310 315 320

Leu Thr Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala
325 330 335

Leu Glu Arg Val Ile Cys Lys Arg Lys Asn Pro Phe Leu Leu
340 345 350

<210> 487
<211> 972
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> {1}..(969)
<223>

<400> 487atg atg gga caa aat caa acc agc atc tca gac ttc ctg ctc ctg ggc
48

Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Leu Gly
1 5 10 15

ctg ccc atc caa cca gag cag caa aac ctg tgc tat gcc ctg ttc ttg 96
Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu
20 25 30

gcc atg tat ctt acc acc ctc ctg ggg aac ctc ctc atc att gtc ctc 144
Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu
35 40 45

att cga ctg gac tcc cat ctc cac acg cct gtg tat ttg ttt ctc agc 192
Ile Arg Leu Asp Ser His Leu His Thr Pro Val Tyr Leu Phe Leu Ser
50 55 60

aac ttg tcc ttc tct gac ctc tgc ttt tcc tca gtc aca atg ccc aaa 240
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys
65 70 75 80

ttg ctg cag aac atg cag aac caa gac cca tcc atc ccc tat gca gac 288
Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp
85 90 95

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tgc ctg acc caa atg tac ttc ttc ttg tat ttt tgg gat cta gag agc   336
Cys Leu Thr Gln Met Tyr Phe Phe Leu Tyr Phe Ser Asp Leu Glu Ser
      100                      105                      110

ttc ctg ctt gtg gcc atg gcc tat gac cgc tat gtg gcc atc tgc ttc   384
Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe
      115                      120                      125

ccc atg cac tac acc gcc atc tgc ttc ctg cac tac acc gcc atc   432
Pro Met His Tyr Thr Ala Ile Cys Phe Leu Leu His Tyr Thr Ala Ile
      130                      135                      140

atg agc ccc atg ctg tgt ctg tcc gtg gtg gcg ctg tcc tgg gtg ctg   480
Met Ser Pro Met Leu Cys Leu Ser Val Val Ala Leu Ser Trp Val Leu
      145                      150                      155                      160

acc acc ttc cat gcc atg tta cac act tta ctg atg gcc agg ttg tgt   528
Thr Thr Phe His Ala Met Leu His Thr Leu Leu Met Ala Arg Leu Cys
      165                      170                      175

ttt tgt gca gac aat gtg atc ccc caa ttt ttc tgt gat atg tot gct   576
Phe Cys Ala Asp Asn Val Ile Pro His Phe Phe Cys Asp Met Ser Ala
      180                      185                      190

ctg ctg aag ctg gcc tgc tct gac act cga gtt aat gaa tgg gtg ata   624
Leu Leu Lys Leu Ala Cys Ser Asp Thr Arg Val Asn Glu Trp Val Ile
      195                      200                      205

ttt atc atg gga ggg ctg att ctt gtc atc cca ttc cta ctg atc ctt   672
Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe Leu Leu Ile Leu
      210                      215                      220

ggg tcc tat gca aga att gtc tcc tcc atc ctg aag gtc cct tct tct   720
Gly Ser Tyr Ala Arg Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser
      225                      230                      235                      240

aag ggt atc tgc aag gcc ttc tct act tgt ggc tcc cac ctg tct gtg   768
Lys Gly Ile Cys Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val
      245                      250                      255

gtg tca ctg ttc tat ggg acc gtt att ggt ctg tac tta tgc cca tca   816
Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr Leu Cys Pro Ser
      260                      265                      270

gct aat agt tct act cta aag gac act gtc atg gct atg atg tac act   864
Ala Asn Ser Ser Thr Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr
      275                      280                      285

gtg gtg acc cct atg ctg acc ccc ttc atc tac agc ctg agg aac aga   912
Val Val Thr Pro Met Leu Thr Pro Phe Ile Tyr Ser Leu Arg Asn Arg
      290                      295                      300

gac atg aag gga gcc ctg gaa agg gtc att tgt aac agg aaa aat ccc   960
Asp Met Lys Gly Ala Leu Glu Arg Val Ile Cys Lys Arg Lys Asn Pro
      305                      310                      315                      320

ttc ctt cta tga   972
Phe Leu Leu

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<210> 488
 <211> 323
 <212> PRT
 <213> Homo Sapiens

<400> 488
 Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Leu Gly
 1 5 10 15

Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu
 20 25 30

Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu
 35 40 45

Ile Arg Leu Asp Ser His Leu His Thr Pro Val Tyr Leu Phe Leu Ser
 50 55 60

Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys
 65 70 75 80

Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp
 85 90 95

Cys Leu Thr Gln Met Tyr Phe Phe Leu Tyr Phe Ser Asp Leu Glu Ser
 100 105 110

Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe
 115 120 125

Pro Met His Tyr Thr Ala Ile Cys Phe Leu Leu His Tyr Thr Ala Ile
 130 135 140

Met Ser Pro Met Leu Cys Leu Ser Val Val Ala Leu Ser Trp Val Leu
 145 150 155 160

Thr Thr Phe His Ala Met Leu His Thr Leu Leu Met Ala Arg Leu Cys
 165 170 175

Phe Cys Ala Asp Asn Val Ile Pro His Phe Phe Cys Asp Met Ser Ala
 180 185 190

Leu Leu Lys Leu Ala Cys Ser Asp Thr Arg Val Asn Glu Trp Val Ile
 195 200 205

Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe Leu Leu Ile Leu
 210 215 220

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Gly Ser Tyr Ala Arg Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser
225 230 235 240

Lys Gly Ile Cys Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val
245 250 255

Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr Leu Cys Pro Ser
260 265 270

Ala Asn Ser Ser Thr Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr
275 280 285

Val Val Thr Pro Met Leu Thr Pro Phe Ile Tyr Ser Leu Arg Asn Arg
290 295 300

Asp Met Lys Gly Ala Leu Glu Arg Val Ile Cys Lys Arg Lys Asn Pro
305 310 315 320

Phe Leu Leu

<210> 489
<211> 954
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(951)
<223>

<400> 489atg gaa gga aag aat caa aca gct cca tct gaa ttc atc atc ttg ggg
48
Met Glu Gly Lys Asn Gln Thr Ala Pro Ser Glu Phe Ile Ile Leu Gly
1 5 10 15
tgc gac cac ctg aat gaa ttg cag tat tta ctc ttc acc atc ttc ttt 96
Phe Asp His Leu Asn Glu Leu Gln Tyr Leu Leu Phe Thr Ile Phe Phe
20 25 30
ctg acc tac ata tgc act tta gga ggc aat gtt ttt atc att gtg gtg 144
Leu Thr Tyr Ile Cys Thr Leu Gly Gly Asn Val Phe Ile Ile Val Val
35 40 45
acc ata gct gat tcc cac cta cac aca ccc atg tat tat ttc cta gga 192
Thr Ile Ala Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Gly
50 55 60
aat ctt gcc ctt att gac atc tgc tac act act act aat gtc ccc cag 240
Asn Leu Ala Leu Ile Asp Ile Cys Tyr Thr Thr Thr Asn Val Pro Gln
65 70 75 80

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atg atg gtg cat ctt ctg tca gag aag aaa atc att tcc tat gga ggc Met Met Val His Leu Leu Ser Glu Lys Lys Ile Ile Ser Tyr Gly Gly 85 90 95	288
tgt gtg acc cag ctc ttt gca ttc att ttc ttt gtt ggc tca gag tgt Cys Val Thr Gln Leu Phe Ala Phe Ile Phe Phe Val Gly Ser Glu Cys 100 105 110	336
ctc ctc ctg gca gca atg gca tat gat cga tat att gct atc tgt aag Leu Leu 115 Ala Ala Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Lys 130 125	384
ccg tta agg tac tca ttt att atg aac aag gcc ctg tgc agc tgg tta Pro Leu Arg Tyr Ser Phe Ile Met Asn Lys Ala Leu Cys Ser Trp Leu 130 135 140	432
gca gcc tca tgc tgg aca tgt ggg ttt ctc aac tca gtg tgg cac acc Ala Ala Ser Cys Trp Thr Cys Gly Phe Leu Asn Ser Val Leu His Thr 145 150 155 160	480
gtt ctg acc ttc cac ctg ccc ttc tgt ggt aac aat cag atc aat tat Val Leu Thr Phe His Leu Pro Phe Cys Gly Asn Asn Gln Ile Asn Tyr 165 170 175	528
ttc ttc tgt gac ata cct ccc ttg ctc atc ttg tct tgt ggt gat act Phe Phe Cys Asp Ile Pro Pro Leu Leu Ile Leu Ser Cys Gly Asp Thr 180 185 190	576
tcc ctc aat gaa ctg gct ttg ctg tcc att ggg atc ctc ata agc tgg Ser Leu Asn Glu Leu Ala Leu Leu Ser Ile Gly Ile Leu Ile Ser Trp 195 200 205	624
act cct ttc ctg tgc atc atc ctt tcc tac ctt tac atc atc tcc acc Thr Pro Phe Leu Cys Ile Ile Leu Ser Tyr Leu Tyr Ile Ile Ser Thr 210 215 220	672
atc ctg agg atc cgt tcc tct gag ggg agg cac aaa gcc ttt tcc acc Ile Leu Arg Ile Arg Ser Ser Glu Gly Arg His Lys Ala Phe Ser Thr 225 230 235 240	720
tgt gcc tcc cac ctg ctc att gtt att ctc tat tat ggc agt gct atc Cys Ala Ser His Leu Leu Ile Val Ile Leu Tyr Tyr Gly Ser Ala Ile 245 250 255	768
ttc acg tat gtg agg ccc atc tca tct tac tct cta gag aaa gat aga Phe Thr Tyr Val Arg Pro Ile Ser Ser Tyr Ser Leu Glu Lys Asp Arg 260 265 270	816
ttg atc tca gtg ctg tat agt gtt gtc aca ccc atg ctg aat cct gta Leu Ile Ser Val Leu Tyr Ser Val Val Thr Pro Met Leu Asn Pro Val 275 280 285	864
att tat acg cta agg aat aag gac atc aaa gag gct gtg aag gcc ata Ile Tyr Thr Leu Arg Asn Lys Asp Ile Lys Glu Ala Val Lys Ala Ile 290 295 300	912
ggg aga aag tgg cag cca cca gtt ttc tct tct gat ata taa Gly Arg Lys Trp Gln Pro Pro Val Phe Ser Ser Asp Ile 305 310 315	954

WO 02/24726

PCT/BE01/00162

<210> 490
 <211> 317
 <212> PRT
 <213> Homo Sapiens

<400> 490
 Met Glu Gly Lys Asn Gln Thr Ala Pro Ser Glu Phe Ile Ile Leu Gly
 1 5 10 15

Phe Asp His Leu Asn Glu Leu Gln Tyr Leu Leu Phe Thr Ile Phe Phe
 20 25 30

Leu Thr Tyr Ile Cys Thr Leu Gly Gly Asn Val Phe Ile Ile Val Val
 35 40 45

Thr Ile Ala Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Gly
 50 55 60

Asn Leu Ala Leu Ile Asp Ile Cys Tyr Thr Thr Thr Asn Val Pro Gln
 65 70 75 80

Met Met Val His Leu Leu Ser Glu Lys Lys Ile Ile Ser Tyr Gly Gly
 85 90 95

Cys Val Thr Gln Leu Phe Ala Phe Ile Phe Phe Val Gly Ser Glu Cys
 100 105 110

Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Lys
 115 120 125

Pro Leu Arg Tyr Ser Phe Ile Met Asn Lys Ala Leu Cys Ser Trp Leu
 130 135 140

Ala Ala Ser Cys Trp Thr Cys Gly Phe Leu Asn Ser Val Leu His Thr
 145 150 155 160

Val Leu Thr Phe His Leu Pro Phe Cys Gly Asn Asn Gln Ile Asn Tyr
 165 170 175

Phe Phe Cys Asp Ile Pro Pro Leu Leu Ile Leu Ser Cys Gly Asp Thr
 180 185 190

Ser Leu Asn Glu Leu Ala Leu Leu Ser Ile Gly Ile Leu Ile Ser Trp
 195 200 205

Thr Pro Phe Leu Cys Ile Ile Leu Ser Tyr Leu Tyr Ile Ile Ser Thr
 210 215 220

WO 02/24726

PCT/BE01/00162

Ile Leu Arg Ile Arg Ser Ser Glu Gly Arg His Lys Ala Phe Ser Thr
225 230 235 240

Cys Ala Ser His Leu Leu Ile Val Ile Leu Tyr Tyr Gly Ser Ala Ile
245 250 255

Phe Thr Tyr Val Arg Pro Ile Ser Ser Tyr Ser Leu Glu Lys Asp Arg
260 265 270

Leu Ile Ser Val Leu Tyr Ser Val Val Thr Pro Met Leu Asn Pro Val
275 280 285

Ile Tyr Thr Leu Arg Asn Lys Asp Ile Lys Glu Ala Val Lys Ala Ile
290 295 300

Gly Arg Lys Trp Gln Pro Pro Val Phe Ser Ser Asp Ile
305 310 315

<210> 491
<211> 975
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(975)
<223>

<400> 491atg gct gaa gtt aat atc att cat gtc act gta ttc att ctg aaa gga
48

Met Ala Glu Val Asn Ile Ile Tyr Val Thr Val Phe Ile Leu Lys Gly
1 5 10 15

att acc aac cgg cca gag ctt cag gcc ccg tgc ttt ggg gtg ttt tta 96
Ile Thr Asn Arg Pro Glu Leu Gln Ala Pro Cys Phe Gly Val Phe Leu
20 25 30

gtt atc tat ctg gtc aca gtg ctg ggc aat ctt ggg ttg att act tta 144
Val Ile Tyr Leu Val Thr Val Leu Gly Asn Leu Gly Ile Thr Leu
35 40 45

atc aag att gat act cga ctc cac aca cot atg tac tat ttc ctc agc 192
Ile Lys Ile Asp Thr Arg Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
50 55 60

cac ctg gcc ttt gtt gac ctt tgt tac tcc tct gct att aca ccg aag 240
His Leu Ala Phe Val Asp Leu Cys Tyr Ser Ser Ala Ile Thr Pro Lys
65 70 75 80

atg atg gts aat ttt gtt gtg gaa cgc aac acc att cot ttc cat gct 288
Met Met Val Asn Phe Val Val Glu Arg Asn Thr Ile Pro Phe His Ala
85 90 95

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PCT/BE01/00162

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tgt gca acc caa ctg ggt tgt ttt ctc acc ttc atg atc act gag tgt      336
Cys Ala Thr Gln Leu Gly Cys Phe Leu Thr Phe Met Ile Thr Glu Cys
      100                      105                      110

ttc ctt cta gcc tcc atg gcc tac gat tgc tat gtc gcc atc tgt agt      384
Phe Leu Leu Ala Ser Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Ser
      115                      120                      125

ccc ctg cat tat tca aca ctg atg tca aga aga gtc tgc att caa ctg      432
Pro Leu His Tyr Ser Thr Leu Met Ser Arg Arg Val Cys Ile Gln Leu
      130                      135                      140

gtg gca gtt cca tat ata tac agc ttc ctg ggt gcc ctc ttc cac acc      480
Val Ala Val Pro Tyr Ile Tyr Ser Phe Leu Val Ala Leu Phe His Thr
      145                      150                      155                      160

gtt atc act ttc cgt ctg act tac tgt ggc cca aac tta att aac cat      528
Val Ile Thr Phe Arg Leu Thr Tyr Cys Gly Pro Asn Leu Ile Asn His
      165                      170                      175

ttc tat tgt gat gac ctc ccc ttc tta gct ctg tcc tgc tca gac aca      576
Phe Tyr Cys Asp Asp Leu Pro Phe Leu Ala Leu Ser Cys Ser Asp Thr
      180                      185                      190

cac atg aag gaa att ctg ata ttt gcc ttt gct ggc ttt gat atg atc      624
His Met Lys Glu Ile Leu Ile Phe Ala Phe Ala Gly Phe Asp Met Ile
      195                      200                      205

tct tcc tct tcc att gtc ctc acc tcc tac atc ttt att att gcc got      672
Ser Ser Ser Ser Ile Val Leu Thr Ser Tyr Ile Phe Ile Ile Ala Ala
      210                      215                      220

atc cta agg atc cgc tct act cag ggg caa cac aaa gcc att tcc acc      720
Ile Leu Arg Ile Arg Ser Thr Gln Gly Gln His Lys Ala Ile Ser Thr
      225                      230                      235                      240

tgt ggc tcc cat atg gtg act gtc act att ttc tat ggc aca ctg atc      768
Cys Gly Ser His Met Val Thr Val Thr Ile Phe Tyr Gly Thr Leu Ile
      245                      250                      255

ttt atg tac cta cag ccc aaa tca aat cac tcc ttg gac aca gat aag      816
Phe Met Tyr Leu Gln Pro Lys Ser Asn His Ser Leu Asp Thr Asp Lys
      260                      265                      270

atg gct tct gta ttt tac aca gtg gtg atc ccc atg tta aac ccc cta      864
Met Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
      275                      280                      285

atc tat agt cta agg aac aca gaa gtg aaa gat gcc tca aag aaa gcc      912
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Ser Lys Lys Ala
      290                      295                      300

ttg gat aaa ggt tgt gaa aac tta cag ata tta aca ttt tta aaa ata      960
Leu Asp Lys Gly Cys Glu Asn Leu Gln Ile Leu Thr Phe Leu Lys Ile
      305                      310                      315                      320

aga aaa ctt tat taa      975
Arg Lys Leu Tyr

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<210> 492
 <211> 324
 <212> PRT
 <213> Homo Sapiens
 <400> 492
 Met Ala Glu Val Asn Ile Ile Tyr Val Thr Val Phe Ile Leu Lys Gly
 1 5 10 15
 Ile Thr Asn Arg Pro Glu Leu Gln Ala Pro Cys Phe Gly Val Phe Leu
 20 25 30
 Val Ile Tyr Leu Val Thr Val Leu Gly Asn Leu Gly Leu Ile Thr Leu
 35 40 45
 Ile Lys Ile Asp Thr Arg Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
 50 55 60
 His Leu Ala Phe Val Asp Leu Cys Tyr Ser Ser Ala Ile Thr Pro Lys
 65 70 75 80
 Met Met Val Asn Phe Val Val Glu Arg Asn Thr Ile Pro Phe His Ala
 85 90 95
 Cys Ala Thr Gln Leu Gly Cys Phe Leu Thr Phe Met Ile Thr Glu Cys
 100 105 110
 Phe Leu Leu Ala Ser Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Ser
 115 120 125
 Pro Leu His Tyr Ser Thr Leu Met Ser Arg Arg Val Cys Ile Gln Leu
 130 135 140
 Val Ala Val Pro Tyr Ile Tyr Ser Phe Leu Val Ala Leu Phe His Thr
 145 150 155 160
 Val Ile Thr Phe Arg Leu Thr Tyr Cys Gly Pro Asn Leu Ile Asn His
 165 170 175
 Phe Tyr Cys Asp Asp Leu Pro Phe Leu Ala Leu Ser Cys Ser Asp Thr
 180 185 190
 His Met Lys Glu Ile Leu Ile Phe Ala Phe Ala Gly Phe Asp Met Ile
 195 200 205
 Ser Ser Ser Ser Ile Val Leu Thr Ser Tyr Ile Phe Ile Ile Ala Ala
 210 215 220

WO 02/24726

PCT/BE01/00162

Ile Leu Arg Ile Arg Ser Thr Gln Gly Gln His Lys Ala Ile Ser Thr
225 230 235 240

Cys Gly Ser His Met Val Thr Val Thr Ile Phe Tyr Gly Thr Leu Ile
245 250 255

Phe Met Tyr Leu Gln Pro Lys Ser Asn His Ser Leu Asp Thr Asp Lys
260 265 270

Met Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
275 280 285

Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Ser Lys Lys Ala
290 295 300

Leu Asp Lys Gly Cys Glu Asn Leu Gln Ile Leu Thr Phe Leu Lys Ile
305 310 315 320

Arg Lys Leu Tyr

<210> 493

<211> 945

<212> DNA

<213> Homo Sapiens

<220>

<221> CDS

<222> (1)..(942)

<223>

<400> 493atg gcc aga aaa gat atg gct cac atc aat tgc acc cag ggc aca gag

48
Met Ala Arg Lys Asp Met Ala His Ile Asn Cys Thr Gln Ala Thr Glu
1 5 10 15

ttt att ctt gtg ggc ctc aca gac cat cag gag ttg aag atg ccc ctc 96
Phe Ile Leu Val Gly Leu Thr Asp His Gln Glu Leu Lys Met Pro Leu
20 25 30

ttt gtg cta ttc tta tcc atc tac ctc ttc aca gtg gta ggc aac ttg 144
Phe Val Leu Phe Leu Ser Ile Tyr Leu Phe Thr Val Val Gly Asn Leu
35 40 45

ggc ttg atc cta ctc att aga ggc gat aca agt ctc aac aca cca atg 192
Gly Leu Ile Leu Leu Ile Arg Ala Asp Thr Ser Leu Asn Thr Pro Met
50 55 60

tac ttc ttt ctt agc aac cta got ttt gtg gat ttc tgt tac tct tot 240
Tyr Phe Phe Leu Ser Asn Leu Ala Phe Val Asp Phe Cys Tyr Ser Ser
65 70 75 80

WO 02/24726

PCT/BE01/00162

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gtc att aca ccc aaa atg ctt ggg aat ttc ttg tac aaa caa aat gtt      288
Val Ile Thr Pro Lys Met Leu Gly Asn Phe Leu Tyr Lys Gln Asn Val
          95          90          95

ata tcc ttt gat gca tgt gct act caa ctg ggc tgc ttt ctc acc ttc      336
Ile Ser Phe Asp Ala Cys Ala Thr Gln Leu Gly Cys Phe Leu Thr Phe
          100          105          110

atg ata tca gaa tcc ttg cta ctg gct tcc atg gcc tat gac cga tat      384
Met Ile Ser Glu Ser Leu Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr
          115          120          125

gtg gcc att tgt aac cct cta ttg tat atg gtt gta atg act cca gga      432
Val Ala Ile Cys Asn Pro Leu Leu Tyr Met Val Val Met Thr Pro Gly
          130          135          140

atc tgc att caa ctt gta gca gtt cct tat agc tat agc ttc cta atg      480
Ile Cys Ile Gln Leu Val Ala Val Pro Tyr Ser Tyr Ser Phe Leu Met
          145          150          155          160

gca cta ttt cac acc atc ctc acc ttc cgc ctc tcc tat tgc cag tcc      528
Ala Leu Phe His Thr Ile Leu Thr Phe Arg Leu Ser Tyr Cys His Ser
          165          170          175

aac att gtc aac cat ttc tat tgt gat gac atg cct ctc ctc agg cta      576
Asn Ile Val Asn His Phe Tyr Cys Asp Asp Met Pro Leu Leu Arg Leu
          180          185          190

act tgc tca gac act cgc ttc aaa cag ctc tgg atc ttt gcc tgt gct      624
Thr Cys Ser Asp Thr Arg Phe Lys Gln Leu Trp Ile Phe Ala Cys Ala
          195          200          205

ggt atc atg ttc att tcc tcc ctt ctg att gtc ttt gtc tcc tac atg      672
Gly Ile Met Phe Ile Ser Ser Leu Ile Val Phe Val Ser Tyr Met
          210          215          220

ttc atc att tct gcc atc ctg agg atg cat tca gct gag gga aga cag      720
Phe Ile Ile Ser Ala Ile Leu Arg Met His Ser Ala Glu Gly Arg Gln
          225          230          235          240

aag gct ttc tgc acg tgt ggc tct cac atg ctg gca gtc acc ata ttc      768
Lys Ala Phe Ser Thr Cys Gly Ser His Met Leu Ala Val Thr Ile Phe
          245          250          255

tat ggg acc ctc att ttt atg tac tta cag cct agc tct agc cat gcc      816
Tyr Gly Thr Leu Ile Phe Met Tyr Leu Gln Pro Ser Ser Ser His Ala
          260          265          270

ctg gac aca gac aag atg gcc tct gtc ttc tac aca gtg atc att ccc      864
Leu Asp Thr Asp Lys Met Ala Ser Val Phe Tyr Thr Val Ile Ile Pro
          275          280          285

atg ttg aat ccc tta atc tat agc ctc cag aat aag gag gtg aaa gaa      912
Met Leu Asn Pro Leu Ile Tyr Ser Leu Gln Asn Lys Glu Val Lys Glu
          290          295          300

gct ctg aag aaa atc att atc aat aaa aac tag      945
Ala Leu Lys Lys Ile Ile Ile Asn Lys Asn
          305          310

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PCT/BE01/00162

<210> 494
 <211> 314
 <212> PRT
 <213> Homo Sapiens

<400> 494
 Met Ala Arg Lys Asp Met Ala His Ile Asn Cys Thr Gln Ala Thr Glu
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Phe Ile Leu Val Gly Leu Thr Asp His Gln Glu Leu Lys Met Pro Leu
 20 25 30

Phe Val Leu Phe Leu Ser Ile Tyr Leu Phe Thr Val Val Gly Asn Leu
 35 40 45

Gly Leu Ile Leu Leu Ile Arg Ala Asp Thr Ser Leu Asn Thr Pro Met
 50 55 60

Tyr Phe Phe Leu Ser Asn Leu Ala Phe Val Asp Phe Cys Tyr Ser Ser
 65 70 75 80

Val Ile Thr Pro Lys Met Leu Gly Asn Phe Leu Tyr Lys Gln Asn Val
 85 90 95

Ile Ser Phe Asp Ala Cys Ala Thr Gln Leu Gly Cys Phe Leu Thr Phe
 100 105 110

Met Ile Ser Glu Ser Leu Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr
 115 120 125

Val Ala Ile Cys Asn Pro Leu Leu Tyr Met Val Val Met Thr Pro Gly
 130 135 140

Ile Cys Ile Gln Leu Val Ala Val Pro Tyr Ser Tyr Ser Phe Leu Met
 145 150 155 160

Ala Leu Phe His Thr Ile Leu Thr Phe Arg Leu Ser Tyr Cys His Ser
 165 170 175

Asn Ile Val Asn His Phe Tyr Cys Asp Asp Met Pro Leu Leu Arg Leu
 180 185 190

Thr Cys Ser Asp Thr Arg Phe Lys Gln Leu Trp Ile Phe Ala Cys Ala
 195 200 205

Gly Ile Met Phe Ile Ser Ser Leu Leu Ile Val Phe Val Ser Tyr Met
 210 215 220

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PCT/BE01/00162

Phe Ile Ile Ser Ala Ile Leu Arg Met His Ser Ala Glu Gly Arg Gln
225 230 235 240

Lys Ala Phe Ser Thr Cys Gly Ser His Met Leu Ala Val Thr Ile Phe
245 250 255

Tyr Gly Thr Leu Ile Phe Met Tyr Leu Gln Pro Ser Ser Ser His Ala
260 265 270

Leu Asp Thr Asp Lys Met Ala Ser Val Phe Tyr Thr Val Ile Ile Pro
275 280 285

Met Leu Asn Pro Leu Ile Tyr Ser Leu Gln Asn Lys Glu Val Lys Glu
290 295 300

Ala Leu Lys Lys Ile Ile Ile Asn Lys Asn
305 310

<210> 495
<211> 945
<212> DNA
<213> Homo Sapiens

<220>
<221> CDS
<222> (1)..(942)
<223>

<400> 495atg gag aac aac aca gag gtg act gaa ttc atc ctt gtg ggg tta act
48

Met Glu Asn Asn Thr Glu Val Thr Glu Phe Ile Leu Val Gly Leu Thr
1 5 10 15

gat gac cca gaa ctg cag atc cca ctc ttc ata gtc ttc ctt ttc atc 96
Asp Asp Pro Glu Leu Gln Ile Pro Leu Phe Ile Val Phe Leu Phe Ile
20 25 30

tac ctc atc act ctg gtt ggg aac ctg ggg atg att gaa ttg att cta 144
Tyr Leu Ile Thr Leu Val Gly Asn Leu Gly Met Ile Glu Leu Ile Leu
35 40 45

ctg gac tcc tgt ctc cac acc ccc atg tac ttc ttc ctc agt aac ctc 192
Leu Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
50 55 60

tcc ctg gtg gac ttt ggt tat tcc tca gct gtc act ccc aag gtg atg 240
Ser Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met
65 70 75 80

gtg ggg ttt ctc aca gga gac aaa ttc ata tta tat aat gct tgt gcc 288
Val Gly Phe Leu Thr Gly Asp Lys Phe Ile Leu Tyr Asn Ala Cys Ala
85 90 95

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aca caa ttc ttc ttc ttt gta gcc ttt atc act gca gaa agt ttc ctc      336
Thr Gln Phe Phe Phe Phe Val Ala Phe Ile Thr Ala Glu Ser Phe Leu
      100      105      110

ctg gca tca atg gcc tat gac cgc tat gca gca ttg tgt aaa ccc ctg      384
Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Leu Cys Lys Pro Leu
      115      120      125

cat tac acc acc acc atg aca aca aat gta tgt gct tgc ctg gcc ata      432
His Tyr Thr Thr Thr Met Thr Thr Asn Val Cys Ala Cys Leu Ala Ile
      130      135      140

ggc tcc tac atc tgt ggt ttc ctg aat gca tcc att cat act ggg aac      480
Gly Ser Tyr Ile Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asn
      145      150      155      160

act ttc agg ctc tcc ttc tgt aga tcc aat gta gtt gaa cac ttt ttc      528
Thr Phe Arg Leu Ser Phe Cys Arg Ser Asn Val Val Glu His Phe Phe
      165      170      175

tgt gat gct cct cct ctc ttg act ctc tca tgt tca gac aac tac atc      576
Cys Asp Ala Pro Pro Leu Leu Thr Leu Ser Cys Ser Asp Asn Tyr Ile
      180      185      190

agt gag atg gtt att ttt ttt gtg gtg gga ttc aat gac ctc ttt tot      624
Ser Glu Met Val Ile Phe Phe Val Val Gly Phe Asn Asp Leu Phe Ser
      195      200      205

atc ctg gta atc ttg atc tcc tac tta ttt ata ttt atc acc atc atg      672
Ile Leu Val Ile Leu Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Met
      210      215      220

aag atg cgc tca cct gaa gga cgc cag aag gcc ttt tct act tgt gct      720
Lys Met Arg Ser Pro Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala
      225      230      235      240

tcc cac ctt act gca gtt tcc atc ttt tat ggg aca gga atc ttt atg      768
Ser His Leu Thr Ala Val Ser Ile Phe Tyr Gly Thr Gly Ile Phe Met
      245      250      255

tac tta cga cct aac tcc ago cat ttc atg ggc aca gac aaa atg gca      816
Tyr Leu Arg Pro Asn Ser Ser His Phe Met Gly Thr Asp Lys Met Ala
      260      265      270

tct gtg ttc tat gcc ata gtc att ccc atg ttg aat cca ctg gtc tac      864
Ser Val Phe Tyr Ala Ile Val Ile Pro Met Leu Asn Pro Leu Val Tyr
      275      280      285

agc ctg agg aac aag gag gtt aag agt gcc ttt aaa aag act gta ggg      912
Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Lys Lys Thr Val Gly
      290      295      300

aag gca aag gcc tct ata gga ttc ata ttt taa      945
Lys Ala Lys Ala Ser Ile Gly Phe Ile Phe
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<211> 314

<212> PRT

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<213> Homo Sapiens

<400> 496

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Asp Asp Pro Glu Leu Gln Ile Pro Leu Phe Ile Val Phe Leu Phe Ile
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Tyr Leu Ile Thr Leu Val Gly Asn Leu Gly Met Ile Glu Leu Ile Leu
 35 40 45

Leu Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60

Ser Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met
 65 70 75 80

Val Gly Phe Leu Thr Gly Asp Lys Phe Ile Leu Tyr Asn Ala Cys Ala
 85 90 95

Thr Gln Phe Phe Phe Val Ala Phe Ile Thr Ala Glu Ser Phe Leu
 100 105 110

Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Leu Cys Lys Pro Leu
 115 120 125

His Tyr Thr Thr Thr Met Thr Thr Asn Val Cys Ala Cys Leu Ala Ile
 130 135 140

Gly Ser Tyr Ile Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asn
 145 150 155 160

Thr Phe Arg Leu Ser Phe Cys Arg Ser Asn Val Val Glu His Phe Phe
 165 170 175

Cys Asp Ala Pro Pro Leu Leu Thr Leu Ser Cys Ser Asp Asn Tyr Ile
 180 185 190

Ser Glu Met Val Ile Phe Phe Val Val Gly Phe Asn Asp Leu Phe Ser
 195 200 205

Ile Leu Val Ile Leu Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Met
 210 215 220

Lys Met Arg Ser Pro Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala
 225 230 235 240

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Ser His Leu Thr Ala Val Ser Ile Phe Tyr Gly Thr Gly Ile Phe Met
245 250 255

Tyr Leu Arg Pro Asn Ser Ser His Phe Met Gly Thr Asp Lys Met Ala
260 265 270

Ser Val Phe Tyr Ala Ile Val Ile Pro Met Leu Asn Pro Leu Val Tyr
275 280 285

Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Lys Lys Thr Val Gly
290 295 300

Lys Ala Lys Ala Ser Ile Gly Phe Ile Phe
305 310

<210> 487
<211> 930
<212> DNA
<213> Homo sapiens

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<221> CDS
<222> (1)..(927)
<223>

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48

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agt gtc cca gaa cta cag atc ccc ctc ttt atc ttg ttc acc ttc atc 96
Ser Val Pro Glu Leu Glu Ile Pro Leu Phe Ile Leu Phe Thr Phe Ile
20 25 30

tac ctc ctc act ctg tgt ggg aac ctg ggg atg atg ttg ctg atc ctg 144
Tyr Leu Leu Thr Leu Cys Gly Asn Leu Gly Met Met Leu Leu Ile Leu
35 40 45

atg gac tot tgt ctc cac acc ccc atg tac ttt ttc ctc agt aac ctg 192
Met Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
50 55 60

tct ctg gtg gac ttt gga tac tcc tca gct gtc act ccc aag gtc atg 240
Ser Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met
65 70 75 80

gct ggg ttc ctt aga gga gac aag gtc atc tcc tac aat gca tgt gct 288
Ala Gly Phe Leu Arg Gly Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala
85 90 95

gtt cag atg ttc ttc ttt gta gcc ttg gcc aag gtg gaa aat tac ttg 336
Val Gln Met Phe Phe Phe Val Ala Leu Ala Thr Val Glu Asn Tyr Leu
100 105 110

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ttg gcc tca atg gcc tat gac cgc tat gca gca gtg tgc aaa ccc cta      384
Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu
115                               120                               125

cac tac acc acc acc atg aag gcc agt gta ggt gcc tgt ctg gcc cta      432
His Tyr Thr Thr Met Thr Ala Ser Val Gly Ala Cys Leu Ala Leu
130                               135                               140

ggc tca tat gtc tgt gcc ttc cta aat gcc tca ttc cac att ggg ggc      480
Gly Ser Tyr Val Cys Gly Phe Leu Asn Ala Ser Phe His Ile Gly Gly
145                               150                               155                               160

ata ttc agt ctg tct ttc tgt aaa tcc aat ctg gta cat cac ttt ttc      528
Ile Phe Ser Leu Ser Phe Cys Lys Ser Asn Leu Val His His Phe Phe
165                               170                               175

tgt gat gtt cca gca gtc atg gct ctg tct tgc tct gat aaa cac act      576
Cys Asp Val Pro Ala Val Met Ala Leu Ser Cys Ser Asp Lys His Thr
180                               185                               190

agt gag gtg att ctg gtt ttt atg tca agc ttt aat atc ttt ttt gtt      624
Ser Glu Val Ile Leu Val Phe Met Ser Ser Phe Asn Ile Phe Phe Val
195                               200                               205

cct cta gtt atc ttt atc tcc tac ttg ttc ata ttc atc acc atc ttg      672
Leu Leu Val Ile Phe Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu
210                               215                               220

aag atg cat tca gct aag gga cac caa aaa gca ttg tcc acc tgt gcc      720
Lys Met His Ser Ala Lys Gly His Gln Lys Ala Leu Ser Thr Cys Ala
225                               230                               235                               240

tot cac ttc act gca gtc tcc gtc ttc tat ggg aca gta atc ttc atc      768
Ser His Phe Thr Ala Val Ser Val Phe Tyr Gly Thr Val Ile Phe Ile
245                               250                               255

tac ttg cag ccc agc tcc agc cac tcc atg gac aca gac aaa atg gca      816
Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Met Ala
260                               265                               270

tot gtg ttc tat gct atg atc atc ccc atg ctg aac cct gtg gtc tac      864
Ser Val Phe Tyr Ala Met Ile Ile Pro Met Leu Asn Pro Val Val Tyr
275                               280                               285

agc ctg agg aac aga gaa gtc cag aat gca ttc aag aaa gtg ttg aga      912
Ser Leu Arg Asn Arg Glu Val Gln Asn Ala Phe Lys Lys Val Leu Arg
290                               295                               300

agg caa aaa ttt cta taa      920
Arg Gln Lys Phe Leu
305

<210> 498
<211> 309
<212> PRT
<213> Homo Sapiens

<400> 498
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1 5 10 15
 Ser Val Pro Glu Leu Gln Ile Pro Leu Phe Ile Leu Phe Thr Phe Ile
 20 25 30
 Tyr Leu Leu Thr Leu Cys Gly Asn Leu Gly Met Met Leu Leu Ile Leu
 35 40 45
 Met Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60
 Ser Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met
 65 70 75 80
 Ala Gly Phe Leu Arg Gly Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala
 85 90 95
 Val Gln Met Phe Phe Phe Val Ala Leu Ala Thr Val Glu Asn Tyr Leu
 100 105 110
 Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Thr Thr Met Thr Ala Ser Val Gly Ala Cys Leu Ala Leu
 130 135 140
 Gly Ser Tyr Val Cys Gly Phe Leu Asn Ala Ser Phe His Ile Gly Gly
 145 150 155 160
 Ile Phe Ser Leu Ser Phe Cys Lys Ser Asn Leu Val His His Phe Phe
 165 170 175
 Cys Asp Val Pro Ala Val Met Ala Leu Ser Cys Ser Asp Lys His Thr
 180 185 190
 Ser Glu Val Ile Leu Val Phe Met Ser Ser Phe Asn Ile Phe Phe Val
 195 200 205
 Leu Leu Val Ile Phe Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu
 210 215 220
 Lys Met His Ser Ala Lys Gly His Gln Lys Ala Leu Ser Thr Cys Ala
 225 230 235 240
 Ser His Phe Thr Ala Val Ser Val Phe Tyr Gly Thr Val Ile Phe Ile
 245 250 255

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Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Met Ala
260 265 270

Ser Val Phe Tyr Ala Met Ile Ile Pro Met Leu Asn Pro Val Val Tyr
275 280 285

Ser Leu Arg Asn Arg Glu Val Gln Asn Ala Phe Lys Lys Val Leu Arg
290 295 300

Arg Gln Lys Phe Leu
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aat gac tca gaa ctg cag gtt ccc ctc ttt ata acg ttc ccc ttc atc 96
Asn Asp Ser Glu Leu Gln Val Pro Leu Phe Ile Thr Phe Pro Phe Ile
20 25 30
tat att atc act ctg gtt gga aac ctg gga att att gta ttg ata ttc 144
Tyr Ile Ile Thr Leu Val Gly Asn Leu Gly Ile Ile Val Leu Ile Phe
35 40 45
tgg gat tcc tgt ctc cac aat ccc atg tac ttt ttt ctc agt aac ttg 192
Trp Asp Ser Cys Leu His Asn Pro Met Tyr Phe Phe Leu Ser Asn Leu
50 55 60
tct cta gtg gac ttt tgc tac tct tca gct gtc act ccc atc gtc atg 240
Ser Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Ile Val Met
65 70 75 80
gct gga ttc ctt ata gaa gac aag gtc atc tct tac aat gca tgt gct 288
Ala Gly Phe Leu Ile Glu Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala
85 90 95
gct caa atg tat atc ttt gta got ttt gcc act gtg gaa aat tac ctc 336
Ala Gln Met Tyr Ile Phe Val Ala Phe Ala Thr Val Glu Asn Tyr Leu
100 105 110
ttg gcc tca atg gcc tat gac cgc tat gca gca gtg tgc aaa ccc cta 384
Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu
115 120 125

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cat tac acc aca acc atg aca aca act gtg tgt gct cgt ctg gcc ata      432
His Tyr Thr Thr Thr Met Thr Thr Thr Val Cys Ala Arg Leu Ala Ile
130                      135                      140

ggc tcc tac ctc tgt ggt ttc ctg aat gcc tcc atc cac act ggg gac      480
Gly Ser Tyr Leu Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asp
145                      150                      155                      160

aca ttt agt ctc tct ttc tgt aag tcc aat gaa gtc cat cac ttt ttc      528
Thr Phe Ser Leu Ser Phe Cys Lys Ser Asn Glu Val His His Phe Phe
165                      170                      175

tgt gat att cca gca gtc atg gtt ctc tct tgc tct gat aga cat att      576
Cys Asp Ile Pro Ala Val Met Val Leu Ser Cys Ser Asp Arg His Ile
180                      185                      190

agg gag ctt gtt ctt att tat gtt gtg agc ttc aat atc ttt ata gct      624
Ser Glu Leu Val Leu Ile Tyr Val Val Ser Phe Asn Ile Phe Ile Ala
195                      200                      205

ctc ctg gtt atc ttg ata tcc tac aca ttc att ttt atc acc atc cta      672
Leu Leu Val Ile Leu Ile Ser Tyr Thr Phe Ile Phe Ile Thr Ile Leu
210                      215                      220

aag atg cac tca gct tca gta tac cag aag cct ttg tcc acc tgt gcc      720
Lys Met His Ser Ala Ser Val Tyr Gln Lys Pro Leu Ser Thr Cys Ala
225                      230                      235                      240

tct cat ttc att gca gtc ggc atc ttc tat ggg act att atc ttc atg      768
Ser His Phe Ile Ala Val Gly Ile Phe Tyr Gly Thr Ile Ile Phe Met
245                      250                      255

tac tta caa ccc agc tcc agt cac tcc atg gac aca gac aaa atg gca      816
Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Met Ala
260                      265                      270

cct gtg ttc tat aca atg gtc atc ccc atg ctg aac cct ctg gtc tat      864
Pro Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Val Tyr
275                      280                      285

agt ctg agg aac aag gaa gtg aag agt gca ttc aag aaa gtt gtt gag      912
Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Lys Lys Val Val Glu
290                      295                      300

aag gca aaa ttg tct gta gga tgg tca gtt taa      945
Lys Ala Lys Leu Ser Val Gly Trp Ser Val
305                      310

<210> 500
<211> 314
<212> PRT
<213> Homo Sapiens

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Asn Asp Ser Glu Leu Gln Val Pro Leu Phe Ile Thr Phe Pro Phe Ile

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PCT/BE01/00162

20 25 30
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 35 40 45
 Trp Asp Ser Cys Leu His Asn Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60
 Ser Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Ile Val Met
 65 70 75 80
 Ala Gly Phe Leu Ile Glu Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala
 85 90 95
 Ala Gln Met Tyr Ile Phe Val Ala Phe Ala Thr Val Glu Asn Tyr Leu
 100 105 110
 Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Thr Thr Met Thr Thr Thr Val Cys Ala Arg Leu Ala Ile
 130 135 140
 Gly Ser Tyr Leu Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asp
 145 150 155 160
 Thr Phe Ser Leu Ser Phe Cys Lys Ser Asn Glu Val His His Phe Phe
 165 170 175
 Cys Asp Ile Pro Ala Val Met Val Leu Ser Cys Ser Asp Arg His Ile
 180 185 190
 Ser Glu Leu Val Leu Ile Tyr Val Val Ser Phe Asn Ile Phe Ile Ala
 195 200 205
 Leu Leu Val Ile Leu Ile Ser Tyr Thr Phe Ile Phe Ile Thr Ile Leu
 210 215 220
 Lys Met His Ser Ala Ser Val Tyr Gln Lys Pro Leu Ser Thr Cys Ala
 225 230 235 240
 Ser His Phe Ile Ala Val Gly Ile Phe Tyr Gly Thr Ile Ile Phe Met
 245 250 255
 Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Met Ala
 260 265 270

WO 02/24726

PCT/BE01/00162

Pro Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Val Tyr
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<210> 501
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 Asn Gln Pro Glu Leu Gln Val Met Ile Phe Ile Phe Leu Phe Leu Thr
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 tac atg cta agt atc cta gga aat ctg act att atc acc ctc acc tta 144
 Tyr Met Leu Ser Ile Leu Gly Asn Leu Thr Ile Ile Thr Leu Thr Leu
 35 40 45
 cta gac ccc cac ctc cag acc ccc atg tat ttc ttc ctc cgg aat ttc 192
 Leu Asp Pro His Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe
 50 55 60
 tcc ttc tta gaa att tcc ttc aca tcc att ttt att ccc aga ttt ctg 240
 Ser Phe Leu Glu Ile Ser Phe Thr Ser Ile Phe Ile Pro Arg Phe Leu
 65 70 75 80
 acc agc atg aca aca gga aat aaa gtt atc agc ttt gct ggc tgc ttg 288
 Thr Ser Met Thr Thr Gly Asn Lys Val Ile Ser Phe Ala Gly Cys Leu
 85 90 95
 act cag tat ttt ttt gct ata ttt ctt gga got acc gag ttt tac ctc 336
 Thr Gln Tyr Phe Phe Ala Ile Phe Leu Gly Ala Thr Glu Phe Tyr Leu
 100 105 110
 ctg gcc tcc atg tct tat gat cgt tat gtg gcc atc tgc aaa ccc ttg 384
 Leu Ala Ser Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 cat tac ctg act att atg agc agc aga gtc tgc ata caa cta gtg ttc 432
 His Tyr Leu Thr Ile Met Ser Ser Arg Val Cys Ile Gln Leu Val Phe
 130 135 140

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PCT/BE01/00162

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Cys Ser Trp Leu Gly Gly Phe Leu Ala Ile Leu Pro Pro Ile Ile Leu
145              150              155              160

atg acc cag gta gat ttc tgt gtc tcc aac att ctg aat cac tat tac      528
Met Thr Gln Val Asp Phe Cys Val Ser Asn Ile Leu Asn His Tyr Tyr
165              170              175

tgt gac tat ggg cct ctc gtg gag ctt gcc tgc tca gac aca agc ctc      576
Cys Asp Tyr Gly Pro Leu Val Gln Leu Ala Cys Ser Asp Thr Ser Leu
180              185              190

tta gaa ctg atg gtc atc ctc ttg gcc gtt gtg act ctc atg gtt act      624
Leu Glu Leu Met Val Ile Leu Leu Ala Val Val Thr Leu Met Val Thr
195              200              205

ctg gtg ctg gtg aca ctt tct tac aca tac att atc agg act att ctg      672
Leu Val Leu Val Thr Leu Ser Tyr Thr Tyr Ile Ile Arg Thr Ile Leu
210              215              220

agg atc cct tct gcc cag caa agg aca aag gcc ttt tcc act tgt tcc      720
Arg Ile Pro Ser Ala Gln Gln Arg Thr Lys Ala Phe Ser Thr Cys Ser
225              230              235

tcc cac atg att gtc atc tcc ctc tct tat gcc agc tgc atg ttt atg      768
Ser His Met Ile Val Ile Ser Leu Ser Tyr Gly Ser Cys Met Phe Met
245              250              255

tac att aat cct tct gca aaa gaa gga ggt gct ttc aac aaa gga ata      816
Tyr Ile Asn Pro Ser Ala Lys Glu Gly Gly Ala Phe Asn Lys Gly Ile
260              265              270

gct gta ctc att act tgc gtt act ccc tta ctg aat ccc ttc ata tat      864
Ala Val Leu Ile Thr Ser Val Thr Pro Leu Leu Asn Pro Phe Ile Tyr
275              280              285

act tta aga aat cag caa gtg aaa caa gct ttc aag gac tca gtc aaa      912
Thr Leu Arg Asn Gln Gln Val Lys Gln Ala Phe Lys Asp Ser Val Lys
290              295              300

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Lys Ile Val Lys Leu
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<210> 502
<211> 309
<212> PRT
<213> Homo Sapiens

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20      25      30

Tyr Met Leu Ser Ile Leu Gly Asn Leu Thr Ile Ile Thr Leu Thr Leu

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PCT/BE01/00162

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 65 70 75 80
 Thr Ser Met Thr Thr Gly Asn Lys Val Ile Ser Phe Ala Gly Cys Leu
 85 90 95
 Thr Gln Tyr Phe Phe Ala Ile Phe Leu Gly Ala Thr Glu Phe Tyr Leu
 100 105 110
 Leu Ala Ser Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Leu Thr Ile Met Ser Ser Arg Val Cys Ile Gln Leu Val Phe
 130 135 140
 Cys Ser Trp Leu Gly Gly Phe Leu Ala Ile Leu Pro Pro Ile Ile Leu
 145 150 155 160
 Met Thr Gln Val Asp Phe Cys Val Ser Asn Ile Leu Asn His Tyr Tyr
 165 170 175
 Cys Asp Tyr Gly Pro Leu Val Glu Leu Ala Cys Ser Asp Thr Ser Leu
 180 185 190
 Leu Glu Leu Met Val Ile Leu Leu Ala Val Val Thr Leu Met Val Thr
 195 200 205
 Leu Val Leu Val Thr Leu Ser Tyr Thr Tyr Ile Ile Arg Thr Ile Leu
 210 215 220
 Arg Ile Pro Ser Ala Gln Gln Arg Thr Lys Ala Phe Ser Thr Cys Ser
 225 230 235 240
 Ser His Met Ile Val Ile Ser Leu Ser Tyr Gly Ser Cys Met Phe Met
 245 250 255
 Tyr Ile Asn Pro Ser Ala Lys Glu Gly Gly Ala Phe Asn Lys Gly Ile
 260 265 270
 Ala Val Leu Ile Thr Ser Val Thr Pro Leu Leu Asn Pro Phe Ile Tyr
 275 280 285

WO 02/24726

PCT/BE01/00162

Thr Leu Arg Asn Gln Gln Val Lys Gln Ala Phe Lys Asp Ser Val Lys
 290 295 300

Lys Ile Val Lys Leu
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<210> 503
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 Asp Val Pro Glu Leu Gln Val Ala Val Phe Thr Phe Leu Phe Leu Ala
 20 25 30
 tat tta ctc agc atc ctt gga aat ctg act atc ctc atc ctc acc ttg 144
 Tyr Leu Leu Ser Ile Leu Gly Asn Leu Thr Ile Leu Ile Leu Thr Leu
 35 40 45
 ctg gac tcc cac ctt cag act ccc atg tat ttc ttt ctc cgg aac ttc 192
 Leu Asp Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe
 50 55 60
 tcc ttc ttg gaa att tcc ttc aca aac atc ttc att cca agg gtc ctg 240
 Ser Phe Leu Glu Ile Ser Phe Thr Asn Ile Phe Ile Pro Arg Val Leu
 65 70 75 80
 att agc atc aca aca ggg aac aag agt atc agc ttt gct ggc tgc ttc 288
 Ile Ser Ile Thr Thr Gly Asn Lys Ser Ile Ser Phe Ala Gly Cys Phe
 85 90 95
 act cag tat ttc ttt gcc atg ttc ctt ggg gct aca gag ttt tac ctt 336
 Thr Gln Tyr Phe Phe Ala Met Phe Leu Gly Ala Thr Glu Phe Tyr Leu
 100 105 110
 ctg gct gcc atg tcc tat gac cgc tat gtg gcc atc tgc aaa cct ctg 384
 Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 cat tac acc acc atc atg agc agc aga atc tgc atc cag ctg att ttc 432
 His Tyr Thr Thr Ile Met Ser Ser Arg Ile Cys Ile Gln Leu Ile Phe
 130 135 140
 tgc tct tgg ctg ggt ggg cta atg gct att ata cca aca atc acc ctg 480
 Cys Ser Trp Leu Gly Gly Leu Met Ala Ile Ile Pro Thr Ile Thr Leu
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Met Ser Gln Gln Asp Phe Cys Ala Ser Asn Arg Leu Asn His Tyr Phe
      165      170      175

tgt gac tat gag cct ctt ctg gaa ctc tca tgt tca gac aca agc ctc      576
Cys Asp Tyr Glu Pro Leu Leu Glu Leu Ser Cys Ser Asp Thr Ser Leu
      180      185      190

ata gag aag gtt gtc ttt ctt gtg gca tct gtg acc ctg gtg gtc act      624
Ile Glu Lys Val Val Phe Leu Val Ala Ser Val Thr Leu Val Val Thr
      195      200      205

ctg gtg cta gtg att ctc tcc tat gca ttc att atc aag act att ctg      672
Leu Val Leu Val Ile Leu Ser Tyr Ala Phe Ile Ile Lys Thr Ile Leu
      210      215      220

aag ctc ccc tct gcc caa caa agg aca aaa gcc ttt tcc aca tgt tct      720
Lys Leu Pro Ser Ala Gln Gln Arg Thr Lys Ala Phe Ser Thr Cys Ser
      225      230      235      240

tcc cac atg att gtc atc tcc ctc tct tac gga agc tgc atg ttt atg      768
Ser His Met Ile Val Ile Ser Leu Ser Tyr Gly Ser Cys Met Phe Met
      245      250      255

tac att aat ccc tct gca aaa gaa ggg gat aca ttc aac aag gga gta      816
Tyr Ile Asn Pro Ser Ala Lys Glu Gly Asp Thr Phe Asn Lys Gly Val
      260      265      270

gct cta ctc att act tca gtt got cct tgg ttg aac ccc ttt att tac      864
Ala Leu Leu Ile Thr Ser Val Ala Pro Leu Leu Asn Pro Phe Ile Tyr
      275      280      285

acc cta agg aac caa dag gta aaa caa ccc ttc aag gat atg gtc aaa      912
Thr Leu Arg Asn Gln Gln Val Lys Gln Pro Phe Lys Asp Met Val Lys
      290      295      300

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20      25      30

Tyr Leu Leu Ser Ile Leu Gly Asn Leu Thr Ile Leu Ile Leu Thr Leu
35      40      45

Leu Asp Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe

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 Ser Phe Leu Glu Ile Ser Phe Thr Asn Ile Phe Ile Pro Arg Val Leu
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 85 90 95
 Thr Gln Tyr Phe Phe Ala Met Phe Leu Gly Ala Thr Glu Phe Tyr Leu
 100 105 110
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 His Tyr Thr Thr Ile Met Ser Ser Arg Ile Cys Ile Gln Leu Ile Phe
 130 135 140
 Cys Ser Trp Leu Gly Gly Leu Met Ala Ile Ile Pro Thr Ile Thr Leu
 145 150 155 160
 Met Ser Gln Gln Asp Phe Cys Ala Ser Asn Arg Leu Asn His Tyr Phe
 165 170 175
 Cys Asp Tyr Glu Pro Leu Leu Glu Leu Ser Cys Ser Asp Thr Ser Leu
 180 185 190
 Ile Glu Lys Val Val Phe Leu Val Ala Ser Val Thr Leu Val Val Thr
 195 200 205
 Leu Val Leu Val Ile Leu Ser Tyr Ala Phe Ile Ile Lys Thr Ile Leu
 210 215 220
 Lys Leu Pro Ser Ala Gln Gln Arg Thr Lys Ala Phe Ser Thr Cys Ser
 225 230 235 240
 Ser His Met Ile Val Ile Ser Leu Ser Tyr Gly Ser Cys Met Phe Met
 245 250 255
 Tyr Ile Asn Pro Ser Ala Lys Glu Gly Asp Thr Phe Asn Lys Gly Val
 260 265 270
 Ala Leu Leu Ile Thr Ser Val Ala Pro Leu Leu Asn Pro Phe Ile Tyr
 275 280 285
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Lys Leu Leu Asn Leu
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cta tcc cag act cca gag gtc caa cta gtc cta ttt gtt ata ttt cta      96
Leu Ser Gln Thr Pro Glu Val Gln Leu Val Leu Phe Val Ile Phe Leu
20     25     30
tcc ttc tat ttg ttc atc cta cca gga aat atc ctt atc att tgc acc      144
Ser Phe Tyr Leu Phe Ile Leu Pro Gly Asn Ile Leu Ile Ile Cys Thr
35     40     45
atc agt cta gac cct cat ctg acc tct cct atg tat ttc ctg ttg gct      192
Ile Ser Leu Asp Pro His Leu Thr Ser Pro Met Tyr Phe Leu Leu Ala
50     55     60
aat ctg gcc ttc ctt gat att tgg tac tct tcc att aca gcc cct gaa      240
Asn Leu Ala Phe Leu Asp Ile Trp Tyr Ser Ser Ile Thr Ala Pro Glu
65     70     75     80
atg ctc ata gac ttc ttt gtg gag agg aag ata att tct ttt gat gga      288
Met Leu Ile Asp Phe Phe Val Glu Arg Lys Ile Ile Ser Phe Asp Gly
85     90     95
tgc att gca cag ctc ttc ttc tta caa ttt gct ggg gct tgc gag atg      336
Cys Ile Ala Gln Leu Phe Phe Leu His Phe Ala Gly Ala Ser Glu Met
100    105    110
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Phe Leu Leu Thr Val Met Ala Phe Asp Leu Tyr Thr Ala Ile Cys Arg
115    120    125
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Pro Leu His Tyr Ala Thr Ile Met Asn Gln Arg Leu Cys Cys Ile Leu
130    135    140
gtg gct ctc tcc tgg agg ggg ggc ttc att cat tct atc ata cag gtg      480
Val Ala Leu Ser Trp Arg Gly Gly Phe Ile His Ser Ile Ile Gln Val
145    150    155    160
gct ctc att gtt cga ctt cct ttc tgt ggg ccc aat gag tta gac agt      528
Ala Leu Ile Val Arg Leu Pro Phe Cys Gly Pro Asn Glu Leu Asp Ser
165    170    175

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 180 185 190

ttc cca gag gag tta gtg atg atc tgt agt agt ggt ctg atc tct gtg 624
 Phe Pro Glu Glu Leu Val Met Ile Cys Ser Ser Gly Leu Ile Ser Val
 195 200 205

gtg tgt ttg att gct ctg tta atg tcc tat gcc ttc ctt ctg gcc ttg 672
 Val Cys Leu Ile Ala Leu Leu Met Ser Tyr Ala Phe Leu Leu Ala Leu
 210 215 220

ttc aag aaa ctt tca ggc tca ggt gag aat acc aac agg gcc atg tcc 720
 Phe Lys Lys Leu Ser Gly Ser Gly Glu Asn Thr Asn Arg Ala Met Ser
 225 230 235 240

acc tgc tat tcc cac att acc att gtg gtg cta atg ttt ggg cca tcc 768
 Thr Cys Tyr Ser His Ile Thr Ile Val Val Leu Met Phe Gly Pro Ser
 245 250 255

atc tac att tat gct cgc cca ttt gac tgg ttt tcc cta gat aaa gtg 816
 Ile Tyr Ile Tyr Ala Arg Pro Phe Asp Ser Phe Ser Leu Asp Lys Val
 260 265 270

gtg tct gtg ttc aat act tta ata ttc cct tta cgt aat ccc att att 864
 Val Ser Val Phe Asn Thr Leu Ile Phe Pro Leu Arg Asn Pro Ile Ile
 275 280 285

tac aca ttg aga aac aag gaa gta aag gca gcc atg agg aag ttg gtc 912
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acc aaa tat att ttg tgt aaa gag aag tga 942
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 <211> 313
 <212> PRT
 <213> Homo Sapiens

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Ser Phe Tyr Leu Phe Ile Leu Pro Gly Asn Ile Leu Ile Ile Cys Thr
 35 40 45

Ile Ser Leu Asp Pro His Leu Thr Ser Pro Met Tyr Phe Leu Leu Ala
 50 55 60

Asn Leu Ala Phe Leu Asp Ile Trp Tyr Ser Ser Ile Thr Ala Pro Glu

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65 70 75 80

Met Leu Ile Asp Phe Phe Val Glu Arg Lys Ile Ile Ser Phe Asp Gly
85 90 95

Cys Ile Ala Gln Leu Phe Phe Leu His Phe Ala Gly Ala Ser Glu Met
100 105 110

Phe Leu Leu Thr Val Met Ala Phe Asp Leu Tyr Thr Ala Ile Cys Arg
115 120 125

Pro Leu His Tyr Ala Thr Ile Met Asn Gln Arg Leu Cys Cys Ile Leu
130 135 140

Val Ala Leu Ser Trp Arg Gly Gly Phe Ile His Ser Ile Ile Gln Val
145 150 155 160

Ala Leu Ile Val Arg Leu Pro Phe Cys Gly Pro Asn Glu Leu Asp Ser
165 170 175

Tyr Phe Cys Asp Ile Thr Gln Val Val Arg Ile Ala Cys Ala Asn Thr
180 185 190

Phe Pro Glu Glu Leu Val Met Ile Cys Ser Ser Gly Leu Ile Ser Val
195 200 205

Val Cys Leu Ile Ala Leu Leu Met Ser Tyr Ala Phe Leu Leu Ala Leu
210 215 220

Phe Lys Lys Leu Ser Gly Ser Gly Glu Asn Thr Asn Arg Ala Met Ser
225 230 235 240

Thr Cys Tyr Ser His Ile Thr Ile Val Val Leu Met Phe Gly Pro Ser
245 250 255

Ile Tyr Ile Tyr Ala Arg Pro Phe Asp Ser Phe Ser Leu Asp Lys Val
260 265 270

Val Ser Val Phe Asn Thr Leu Ile Phe Pro Leu Arg Asn Pro Ile Ile
275 280 285

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 Leu Thr Glu Ser Glu Asp Ile Gln Leu Leu Val Phe Val Leu Ile Leu
 20 25 30
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 Ile Phe Tyr Leu Ile Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr
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 Asn Leu Ala Phe Leu Asp Ala Ser Tyr Ser Phe Ile Val Ala Pro Arg
 65 70 75 80
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 Met Leu Val Asp Phe Leu Ser Glu Lys Lys Val Ile Ser Tyr Arg Gly
 85 90 95
 tgc atc act cag ctc ttt ttc ttg cac ttc ctt gga gga ggg gag gga 336
 Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Gly Gly Glu Gly
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 115 120 125
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 Pro Leu His Cys ser Thr Val Met Asn Pro Arg Ala Cys Tyr Ala Met
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 Met Leu Ala Leu Trp Leu Gly Gly Phe Val His Ser Ile Ile Gln Val
 145 150 155 160
 gtc ctc atc ctc cgc ttg cct ttt tgt ggc cca aac cag ctg gac aac 528
 Val Leu Ile Leu Arg Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp Asn
 165 170 175
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 180 185 190

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ttt gtg gtg gag ott cta atg gtc ttc aac agt ggc ctg atg aca ctc      624
Phe Val Val Glu Leu Leu Met Val Phe Asn Ser Gly Leu Met Thr Leu
195                      200                      205

ctg tgc ttt ctg ggg ott ctg gct tcc tat gca gtc atc ctc tgc cat      672
Leu Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Cys His
210                      215                      220

gtt cgt agg gca gct tct gaa ggg aag aac aag gcc atg tcc acg tgc      720
Val Arg Arg Ala Ala Ser Glu Gly Lys Asn Lys Ala Met Ser Thr Cys
225                      230                      235                      240

acc act cgt gtc att att ata ctt ctt atg ttt gga cct gct atc ttc      768
Thr Thr Arg Val Ile Ile Ile Leu Leu Met Phe Gly Pro Ala Ile Phe
245                      250                      255

atc tac atg tgc cct ttc agg gcc tta cca gct gac aag atg gtt tct      816
Ile Tyr Met Cys Pro Phe Arg Ala Leu Pro Ala Asp Lys Met Val Ser
260                      265                      270

ctc ttt cac aca gtg atc ttt cca ttg atg aat cct atg att tat acc      864
Leu Phe His Thr Val Ile Phe Pro Leu Met Asn Pro Met Ile Tyr Thr
275                      280                      285

ctt cgc aac cag gaa gtg aca act tcc atg aag agg tta ttg agt cga      912
Leu Arg Asn Gln Glu Val Lys Thr Ser Met Lys Arg Leu Leu Ser Arg
290                      295                      300

cat gta gtc tgt caa gtg gat ttt ata ata aga aac tga      951
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305                      310                      315

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<212> PRT
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20 25 30

Ile Phe Tyr Leu Ile Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr
35 40 45

Ile Arg Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Leu Phe Leu Gly
50 55 60

Asn Leu Ala Phe Leu Asp Ala Ser Tyr Ser Phe Ile Val Ala Pro Arg
65 70 75 80

Met Leu Val Asp Phe Leu Ser Glu Lys Lys Val Ile Ser Tyr Arg Gly

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760

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ctg tcc ttc ctt ggg gtc agc ctg gtt tat ggt ttg atc atc act ggg 96
Leu Ser Phe Leu Gly Val Ser Leu Val Tyr Gly Leu Ile Ile Thr Gly
20 25 30
aac att ctc att gtg gtg tcc att cac aca gaa acc tgt cta tgc aca 144
Asn Ile Leu Ile Val Val Ser Ile His Thr Glu Thr Cys Leu Cys Thr
35 40 45
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Ser Met Tyr Tyr Phe Leu Gly Ser Leu Ser Gly Ile Glu Ile Cys Tyr
50 55 60
act gca gtg gtg gtg ccc cat atc ctg gcc aac acc cta cag tca gag 240
Thr Ala Val Val Val Pro His Ile Leu Ala Asn Thr Leu Gln Ser Glu
65 70 75 80
aag acc atc act ctc ctg gcc tgt gcc acc cag atg gct ttc ttc att 288
Lys Thr Ile Thr Leu Leu Gly Cys Ala Thr Gln Met Ala Phe Phe Ile
85 90 95
gca ctg gcc agt gct gat tgc ttc ctc ttg gct gcc atg gcc tat gac 336
Ala Leu Gly Ser Ala Asp Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp
100 105 110
cgc tat gtg gcc att tgc cac ccg ttg cag tac cct ctc ctc atg aca 384
Arg Tyr Val Ala Ile Cys His Pro Leu Gln Tyr Pro Leu Leu Met Thr
115 120 125
ttg act ctt tgt gtc cac ttg gtt gtg gca tca gtc atc agt ggt ctg 432
Leu Thr Leu Cys Val His Leu Val Val Ala Ser Val Ile Ser Gly Leu
130 135 140
ttc ctg tcc tta caa ctg gtg gcc ttc atc ttc tct ctg cca ttc tgc 480
Phe Leu Ser Leu Gln Leu Val Ala Phe Ile Phe Ser Leu Pro Phe Cys
145 150 155 160
cag gct cag gcc att gag cac ttc ttt tgt gat gtg cca cca gtc atg 528
Gln Ala Gln Gly Ile Glu His Phe Phe Cys Asp Val Pro Pro Val Met
165 170 175
cat gtt gtt tgt gct cag agt cac att cat gag cag tca gtg ctg gtg 576
His Val Val Cys Ala Gln Ser His Ile His Glu Gln Ser Val Leu Val
180 185 190
gca gcc ata cta gcc att gct gtg cct ttc ttc ctc atc acc acc tcc 624
Ala Ala Ile Leu Ala Ile Ala Val Pro Phe Phe Leu Ile Thr Thr Ser
195 200 205

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PCT/BE01/00162

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tac acc ttc ata gtg gct gct ctg ctc aag atc cac tgg gct gct ggc      872
Tyr Thr Phe Ile Val Ala Ala Leu Leu Lys Ile His Ser Ala Ala Gly
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cgc cac cgg gcc ttc tcc acc tgc tct tcc cac ctc act gtg gtg ctg      720
Arg His Arg Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Leu
    225                      230                      235                      240

ctg cag tat ggc tgc tgt gcc ttc atg tac ctg tgc ccc agc tcc agc      768
Leu Gln Tyr Gly Cys Cys Ala Phe Met Tyr Leu Cys Pro Ser Ser Ser
    245                      250                      255

tac aac ccc aag caa gat cgg ttc atc tca ctg gtg tac aca ttg gga      816
Tyr Asn Pro Lys Gln Asp Arg Phe Ile Ser Leu Val Tyr Thr Leu Gly
    260                      265                      270

acc cca ctg ctc aac caa ctt atc tat gcc ctg agg aac agt gag atg      864
Thr Pro Leu Leu Asn Pro Leu Ile Tyr Ala Leu Arg Asn Ser Glu Met
    275                      280                      285

aaa ggg gcc gta ggg aga gtt ctt acc agg aac tgc ctt tcc cag aac      912
Lys Gly Ala Val Gly Arg Val Leu Thr Arg Asn Cys Leu Ser Gln Asn
    290                      295                      300

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Ser
305

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Asn Ile Leu Ile Val Val Ser Ile His Thr Glu Thr Cys Leu Cys Thr
35      40      45

Ser Met Tyr Tyr Phe Leu Gly Ser Leu Ser Gly Ile Glu Ile Cys Tyr
50      55      60

Thr Ala Val Val Val Pro His Ile Leu Ala Asn Thr Leu Gln Ser Glu
65      70      75      80

Lys Thr Ile Thr Leu Leu Gly Cys Ala Thr Gln Met Ala Phe Phe Ile
85      90      95

Ala Leu Gly Ser Ala Asp Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp

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PCT/BE01/00162

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Arg Tyr Val Ala Ile Cys His Pro Leu Gln Tyr Pro Leu Leu Met Thr
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130          135          140
Phe Leu Ser Leu Gln Leu Val Ala Phe Ile Phe Ser Leu Pro Phe Cys
145          150          155          160
Gln Ala Gln Gly Ile Glu His Phe Phe Cys Asp Val Pro Pro Val Met
165          170          175
His Val Val Cys Ala Gln Ser His Ile His Glu Gln Ser Val Leu Val
180          185          190
Ala Ala Ile Leu Ala Ile Ala Val Pro Phe Phe Leu Ile Thr Thr Ser
195          200          205
Tyr Thr Phe Ile Val Ala Ala Leu Leu Lys Ile His Ser Ala Ala Gly
210          215          220
Arg His Arg Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Leu
225          230          235          240
Leu Gln Tyr Gly Cys Cys Ala Phe Met Tyr Leu Cys Pro Ser Ser Ser
245          250          255
Tyr Asn Pro Lys Gln Asp Arg Phe Ile Ser Leu Val Tyr Thr Leu Gly
260          265          270
Thr Pro Leu Leu Asn Pro Leu Ile Tyr Ala Leu Arg Asn Ser Glu Met
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Ser
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PCT/BE01/00162

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ctt gcc tct gaa gaa cta cat cat atc ctt ttt gct ata ttc ttc ttt      96
Pro Gly Ser Glu Glu Leu His His Ile Leu Phe Ala Ile Phe Phe Phe
20     25     30
ttc tac ttg gtg aca tta atg gga aac aca gtc atc atc atg att gtc      144
Phe Tyr Leu Val Thr Leu Met Gly Asn Thr Val Ile Ile Met Ile Val
35     40     45
tgt gtg gat aaa cgt ctg cag tcc ccc atg tat ttc ttc ctc gcc cac      192
Cys Val Asp Lys Arg Leu Ser Pro Met Tyr Phe Phe Leu Gly His
50     55     60
ctc tct gcc ctg gag atc ctg gtc aca acc ata atc gtc ccc gtg atg      240
Leu Ser Ala Leu Glu Ile Leu Val Thr Thr Ile Ile Val Pro Val Met
65     70     75     80
ctt tgg gga ttg ctg ctc cct ggg atg cag aca ata tat ttg tct gcc      288
Leu Trp Gly Leu Leu Pro Gly Met Gln Thr Ile Tyr Leu Ser Ala
85     90     95
tgt gtt gtc cag ctc ttc ttg tac ctt gct gtg ggg aca aca gag ttc      336
Cys Val Val Gln Leu Phe Leu Tyr Leu Ala Val Gly Thr Thr Glu Phe
100    105    110
gca tta ctt gga gca atg gct gtg gac cgt tat gtg gct gtc tgt aac      384
Ala Leu Leu Gly Ala Met Ala Val Asp Arg Tyr Val Ala Val Cys Asn
115    120    125
cct ctg agg tac aac atc att atg aac aga cac acc tgc aac ttt gtg      432
Pro Leu Arg Tyr Asn Ile Ile Met Asn Arg His Thr Cys Asn Phe Val
130    135    140
gtt ctt gtg tca tgg gtg ttt ggg ttt ctt ttt caa atc tgg cgg gtc      480
Val Leu Val Ser Trp Val Phe Gly Phe Leu Phe Gln Ile Trp Pro Val
145    150    155    160
tat gtc atg ttt cag ctt act tac tgc aaa tca aat gtg gtg aac aac      528
Tyr Val Met Phe Gln Leu Thr Tyr Cys Lys Ser Asn Val Val Asn Asn
165    170    175
ttt ttt tgt gac oga ggg oaa ttg ctc aaa cta tcc tgc aat aat act      576
Phe Phe Cys Asp Arg Gly Gln Leu Leu Lys Leu Ser Cys Asn Asn Thr
180    185    190
ctt ttc acg gag ttt atc ctc ttc tta atg gct gtt ttt gtt ctc ttt      624
Leu Phe Thr Glu Phe Ile Leu Phe Leu Met Ala Val Phe Val Leu Phe
195    200    205
ggc tct ttg atc cct aca att gtc tcc aac gcc tac atc atc tcc acc      672
Gly Ser Leu Ile Pro Thr Ile Val Ser Asn Ala Tyr Ile Ile Ser Thr
210    215    220

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WO 02/24726

PCT/BE01/00162

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att ctc aag atc cgg tca tcc tct ggc cgg agg aaa tcc ttc tcc act    720
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225                230                235                240

tgt gcc tcc cgc ttc acc tgt gtt gtg att ggc tac ggc agc tgc ttg    768
cys ala ser his phe thr cys val val ile gly tyr gly ser cys leu
245                250                255

ttt ctc tac gtg aaa ccc aag caa aag cag gca gct gat tac aat tgg    816
phe leu tyr val lys pro lys gln thr gln ala ala asp tyr asn tyr
260                265                270

gta gtt tcc ctg atg gtt tca gta gta act cct ttc ctc aat cct ttc    864
val val ser leu met val ser val val thr pro phe leu asn pro phe
275                280                285

atc ttc acc ctc cgg aat gat aaa gtc ata gag gcc ctt cgg gat ggg    912
ile phe thr leu arg asn asp lys val ile glu ala leu arg asp gly
290                295                300

gtg aaa cgc tgc tgt caa cta ttc agg aat tag    945
val lys arg cys cys gln leu phe arg asn
305                310

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20                25                30

Phe Tyr Leu Val Thr Leu Met Gly Asn Thr Val Ile Ile Met Ile Val
35                40                45

Cys Val Asp Lys Arg Leu Gln Ser Pro Met Tyr Phe Phe Leu Gly His
50                55                60

Leu Ser Ala Leu Glu Ile Leu Val Thr Thr Ile Ile Val Pro Val Met
65                70                75                80

Leu Trp Gly Leu Leu Leu Pro Gly Met Gln Thr Ile Tyr Leu Ser Ala
85                90                95

Cys Val Val Gln Leu Phe Leu Tyr Leu Ala Val Gly Thr Thr Glu Phe
100               105               110

Ala Leu Leu Gly Ala Met Ala Val Asp Arg Tyr Val Ala Val Cys Asn

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115

120

125

Pro Leu Arg Tyr Asn Ile Ile Met Asn Arg His Thr Cys Asn Phe Val
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Val Leu Val Ser Trp Val Phe Gly Phe Leu Phe Gln Ile Trp Pro Val
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Tyr Val Met Phe Gln Leu Thr Tyr Cys Lys Ser Asn Val Val Asn Asn
 165 170 175

Phe Phe Cys Asp Arg Gly Gln Leu Leu Lys Leu Ser Cys Asn Asn Thr
 180 185 190

Leu Phe Thr Glu Phe Ile Leu Phe Leu Met Ala Val Phe Val Leu Phe
 195 200 205

Gly Ser Leu Ile Pro Thr Ile Val Ser Asn Ala Tyr Ile Ile Ser Thr
 210 215 220

Ile Leu Lys Ile Pro Ser Ser Ser Gly Arg Arg Lys Ser Phe Ser Thr
 225 230 235 240

Cys Ala Ser His Phe Thr Cys Val Val Ile Gly Tyr Gly Ser Cys Leu
 245 250 255

Phe Leu Tyr Val Lys Pro Lys Gln Thr Gln Ala Ala Asp Tyr Asn Trp
 260 265 270

Val Val Ser Leu Met Val Ser Val Val Thr Pro Phe Leu Asn Pro Phe
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Ile Phe Thr Leu Arg Asn Asp Lys Val Ile Glu Ala Leu Arg Asp Gly
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Val Lys Arg Cys Cys Gln Leu Phe Arg Asn
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<210> 513
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atc cca cac aca gag ggg ctg gag atg aca ctt ttt gtc tta ttc ttg 96
Ile Pro His Thr Glu Gly Leu Glu Met Thr Leu Phe Val Leu Phe Leu
20 25 30
ccc ttc tat gcc tgc act cta ctg gga aat gtg tct atc ctt gtt gct 144
Pro Phe Tyr Ala Cys Thr Leu Leu Gly Asn Val Ser Ile Leu Val Ala
35 40 45
gtt atg tct tct gct cgc ctt cac aca cct atg tat ttc ttc ctg gga 192
Val Met Ser Ser Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly
50 55 60
aac ttg tct gtg ttt gac atg ggt ttc tcc tca gtg act tgt ccc aaa 240
Asn Leu Ser Val Phe Asp Met Gly Phe Ser Ser Val Thr Cys Pro Lys
65 70 75 80
atg ctg ctc tac ctt atg ggg ctg agc cga ctc atc tcc tac aaa gac 288
Met Leu Leu Tyr Leu Met Gly Leu Ser Arg Leu Ile Ser Tyr Lys Asp
85 90 95
tgt gtc tgc cag ctt ttc ttc ttc cat ttc ctc ggg agc att gag tgc 336
Cys Val Cys Gln Leu Phe Phe Phe His Phe Leu Gly Ser Ile Glu Cys
100 105 110
ttc ttg ttt acg gtg atg gcc tat gac cgc ttc act gcc atc tgt tat 384
Phe Leu Phe Thr Val Met Ala Tyr Asp Arg Phe Thr Ala Ile Cys Tyr
115 120 125
cct ctg cga tac aca gtc atc atg aac cca agg atc tgt gtg gcc ctg 432
Pro Leu Arg Tyr Thr Val Ile Met Asn Pro Arg Ile Cys Val Ala Leu
130 135 140
gct gtg ggc aca tgg ctg tta ggg tgc att cat tcc agt atc ttg acc 480
Ala Val Gly Thr Trp Leu Leu Gly Cys Ile His Ser Ser Ile Leu Thr
145 150 155 160
tcc ctc acc ttc acc ttg cca tac tgt ggt ccc aat gaa gtg gat cac 528
Ser Leu Thr Phe Thr Leu Pro Tyr Cys Gly Pro Asn Glu Val Asp His
165 170 175
ttc ttc tgt gac att cca gca ctg ttg ccc ttg gcc tgt gct gac aca 576
Phe Phe Cys Asp Ile Pro Ala Leu Leu Pro Leu Ala Cys Ala Asp Thr
180 185 190
tcc tta gcc cag agg gtg agc ttc acc aac gtt ggc ctc ata tct ctt 624
Ser Leu Ala Gln Arg Val Ser Phe Thr Asn Val Gly Leu Ile Ser Leu
195 200 205
gtc tgc ttt ctg cta att ctt tta tcc tac act aga atc aca ata tct 672
Val Cys Phe Leu Leu Ile Leu Leu Ser Tyr Thr Arg Ile Thr Ile Ser
210 215 220
atc tta agc att cgt aca act gag ggc cgt cgc cgt gcc ttc tcc acc 720
Ile Leu Ser Ile Arg Thr Thr Glu Gly Arg Arg Arg Ala Phe Ser Thr
225 230 235 240

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tgc agt gct cac ctc att gcc atc ctc tgt gcc tat ggg ccc atc atc      769
Cys Ser Ala His Leu Ile Ala Ile Leu Cys Ala Tyr Gly Pro Ile Ile
      245              250              255

act gtc tac ctg cag ccc aca ccc aac ccc atg ctg gga acc gtg gta      816
Thr Val Tyr Leu Gln Pro Thr Pro Asn Pro Met Leu Gly Thr Val Val
      260              265              270

caa att ctc atg aat ctg gta gga cca atg ctg aac cct ttg atc tat      864
Gln Ile Leu Met Asn Leu Val Gly Pro Met Leu Asn Pro Leu Ile Tyr
      275              280              285

acc ttg agg aat aag gaa gta aaa aca gcc ctg aaa aca ata ttg cac      912
Thr Leu Arg Asn Lys Glu Val Lys Thr Ala Leu Lys Thr Ile Leu His
      290              295              300

agg aca ggc cat gtt cct gag agt tag      939
Arg Thr Gly His Val Pro Glu Ser
305              310

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<212> PRT
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1      5              10              15

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20              25              30

Pro Phe Tyr Ala Cys Thr Leu Leu Gly Asn Val Ser Ile Leu Val Ala
35              40              45

Val Met Ser Ser Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly
50              55              60

Asn Leu Ser Val Phe Asp Met Gly Phe Ser Ser Val Thr Cys Pro Lys
65              70              75              80

Met Leu Leu Tyr Leu Met Gly Leu Ser Arg Leu Ile Ser Tyr Lys Asp
85              90              95

Cys Val Cys Gln Leu Phe Phe Phe His Phe Leu Gly Ser Ile Glu Cys
100              105              110

Phe Leu Phe Thr Val Met Ala Tyr Asp Arg Phe Thr Ala Ile Cys Tyr
115              120              125

Pro Leu Arg Tyr Thr Val Ile Met Asn Pro Arg Ile Cys Val Ala Leu

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130

135

140

Ala Val Gly Thr Trp Leu Leu Gly Cys Ile His Ser Ser Ile Leu Thr
 145 150 155 160

Ser Leu Thr Phe Thr Leu Pro Tyr Cys Gly Pro Asn Glu Val Asp His
 165 170 175

Phe Phe Cys Asp Ile Pro Ala Leu Leu Pro Leu Ala Cys Ala Asp Thr
 180 185 190

Ser Leu Ala Gln Arg Val Ser Phe Thr Asn Val Gly Leu Ile Ser Leu
 195 200 205

Val Cys Phe Leu Leu Ile Leu Leu Ser Tyr Thr Arg Ile Thr Ile Ser
 210 215 220

Ile Leu Ser Ile Arg Thr Thr Glu Gly Arg Arg Arg Ala Phe Ser Thr
 225 230 235 240

Cys Ser Ala His Leu Ile Ala Ile Leu Cys Ala Tyr Gly Pro Ile Ile
 245 250 255

Thr Val Tyr Leu Gln Pro Thr Pro Asn Pro Met Leu Gly Thr Val Val
 260 265 270

Gln Ile Leu Met Asn Leu Val Gly Pro Met Leu Asn Pro Leu Ile Tyr
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Arg Thr Gly His Val Pro Glu Ser
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1	5	10	15	
atg ctt ttt agt ata ttt tta ctt atg tat ttg atg atc ctg atg tgc				96
Met Leu Phe Ser Ile Phe Leu Leu Met Tyr Leu Met Ile Leu Met Cys				
	20	25	30	
aat ggc atc ata ata cta cta ata aaa att cac ccc gct ctg cag act				144
Asn Gly Ile Ile Ile Leu Leu Ile Lys Ile His Pro Ala Leu Gln Thr				
	35	40	45	
ccc atg tat ttt ttt ctt agc aat ttt tcc ctt ttg gaa atc tgt tat				192
Pro Met Tyr Phe Phe Leu Ser Asn Phe Ser Leu Leu Glu Ile Cys Tyr				
	50	55	60	
gta aca atc att atc cca aga atg ctg atg gac att tgg act cag aaa				240
Val Thr Ile Ile Ile Pro Arg Met Leu Met Asp Ile Trp Thr Gln Lys				
	65	70	75	80
gga aat att tct ttg ttt gct tgt got aca caa atg tgt ttt ttt ctt				288
Gly Asn Ile Ser Leu Phe Ala Cys Ala Thr Gln Met Cys Phe Phe Leu				
	85	90	95	
atg ctt gga ggc acg gag tgt ctg ctt ctg aca gtg atg gcc tat gac				336
Met Leu Gly Gly Thr Glu Cys Leu Leu Thr Val Met Ala Tyr Asp				
	100	105	110	
cgc tac gtg gct att tgt aag cct ttg cag tat cct cta gtg atg aac				384
Arg Tyr Val Ala Ile Cys Lys Pro Leu Gln Tyr Pro Leu Val Met Asn				
	115	120	125	
cac aaa gtc tgc att cag ctg ata ata gct tcc tgg acc atc aca att				432
His Lys Val Cys Ile Gln Leu Ile Ile Ala Ser Trp Thr Ile Thr Ile				
	130	135	140	
cct gta gta att ggg gaa aca tgc caa att ttc ctt ttg ccc ttt tgc				480
Pro Val Val Ile Gly Glu Thr Cys Gln Ile Phe Leu Leu Pro Phe Cys				
	145	150	155	160
gga act aac aca att aat cat ttc ttt tgt gac atc cag cca ata ctg				528
Gly Thr Asn Thr Ile Asn His Phe Phe Cys Asp Ile Pro Pro Ile Leu				
	165	170	175	
aag ctt gct tgt gga aac ata ttt gtg aat gag ata aca gtc cat gta				576
Lys Leu Ala Cys Gly Asn Ile Phe Val Asn Glu Ile Thr Val His Val				
	180	185	190	
gta gcg gtg gta ttt atc acg gtg cca ttt ctg ttg att gtt gtc tct				624
Val Ala Val Val Phe Ile Thr Val Pro Phe Leu Leu Ile Val Val Ser				
	195	200	205	
tat ggc aaa att atc tcc aac att ttg aaa ttg tca tca gcc aga gga				672
Tyr Gly Lys Ile Ile Ser Asn Ile Leu Lys Leu Ser Ser Ala Arg Gly				
	210	215	220	
aag got aaa gcc ttc tcc acc tgc tca tct cac cta ata gtt gta atc				720
Lys Ala Lys Ala Phe Ser Thr Cys Ser Ser His Leu Ile Val Val Ile				
	225	230	235	240
tta ttc ttt gga gaa ggt act atc act tat tta cag ccc aaa cca cat				768
Leu Phe Phe Gly Ala Gly Thr Ile Thr Tyr Leu Gln Pro Lys Pro His				
	245	250	255	

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cag ttt caa agg atg ggg aaa ctg att tct ctt ttc tac acc att ctg 816
 Gln Phe Gln Arg Met Gly Lys Leu Ile Ser Leu Phe Tyr Thr Ile Leu 260 265 270
 att cca act ttg aat cct att ata tat acc ctg agg aac aaa gat atc 864
 Ile Pro Thr Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Ile 275 280 285
 atg gtg gca ttg aga aaa tta cta got aag tta tta aca tga 906
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 Asn Gly Ile Ile Ile Leu Leu Ile Lys Ile His Pro Ala Leu Gln Thr 35 40 45
 Pro Met Tyr Phe Phe Leu Ser Asn Phe Ser Leu Leu Glu Ile Cys Tyr 50 55 60
 Val Thr Ile Ile Ile Pro Arg Met Leu Met Asp Ile Trp Thr Gln Lys 65 70 75 80
 Gly Asn Ile Ser Leu Phe Ala Cys Ala Thr Gln Met Cys Phe Phe Leu 85 90 95
 Met Leu Gly Gly Thr Glu Cys Leu Leu Leu Thr Val Met Ala Tyr Asp 100 105 110
 Arg Tyr Val Ala Ile Cys Lys Pro Leu Gln Tyr Pro Leu Val Met Asn 115 120 125
 His Lys Val Cys Ile Gln Leu Ile Ile Ala Ser Trp Thr Ile Thr Ile 130 135 140
 Pro Val Val Ile Gly Glu Thr Cys Gln Ile Phe Leu Leu Pro Phe Cys 145 150 155 160
 Gly Thr Asn Thr Ile Asn His Phe Phe Cys Asp Ile Pro Pro Ile Leu

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165          170          175

Lys Leu Ala Cys Gly Asn Ile Phe Val Asn Glu Ile Thr Val His Val
180          185          190

Val Ala Val Val Phe Ile Thr Val Pro Phe Leu Leu Ile Val Val Ser
195          200          205

Tyr Gly Lys Ile Ile Ser Asn Ile Leu Lys Leu Ser Ser Ala Arg Gly
210          215          220

Lys Ala Lys Ala Phe Ser Thr Cys Ser Ser His Leu Ile Val Val Ile
225          230          235          240

Leu Phe Phe Gly Ala Gly Thr Ile Thr Tyr Leu Gln Pro Lys Pro His
245          250          255

Gln Phe Gln Arg Met Gly Lys Leu Ile Ser Leu Phe Tyr Thr Ile Leu
260          265          270

Ile Pro Thr Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Ile
275          280          285

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290          295          300

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1      5      10      15

tta act gaa aat cct aat ttg cag atc cca ctc ttt ttg ctt gtc act      96
Leu Thr Glu Asn Pro Asn Leu Gln Ile Pro Leu Phe Leu Leu Val Thr
20     25     30

ctg att tat ttc atc act ttg ttg gat aat ttg ggt ata att att tta      144
Leu Ile Tyr Phe Ile Thr Leu Leu Asp Asn Leu Gly Ile Ile Ile Leu
35     40     45

atc tgg tta aat gcc aac ctt cat act cca atg tac ttc ttc ctt ggc      192
Ile Trp Leu Asn Ala Gln Leu His Thr Pro Met Tyr Phe Phe Leu Gly

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65	70	75	80
atg cta gtc aat ttc cta tca aaa cat aag tcc agt aca ttt tct ggc			288
Met Leu Val Asn Phe Leu Ser Lys His Lys Ser Ser Thr Phe Ser Gly			
85	90	95	
tgt gtt cta cag agt ttc cct ttt gca gta tat gta acc aca aag gac			336
Cys Val Leu Gln Ser Phe Pro Phe Ala Val Tyr Val Thr Thr Lys Asp			
100	105	110	
att ctc ctg tcc atg atg gct tat gac cat tac gtg gcc ata gct aat			384
Ile Leu Leu Ser Met Met Ala Tyr Asp His Tyr Val Ala Ile Ala Asn			
115	120	125	
ccc ttg ttg tat aca gtc att atg gcc caa aaa gtt tgt att cag atg			432
Pro Leu Leu Tyr Thr Val Ile Met Ala Gln Lys Val Cys Ile Gln Met			
130	135	140	
gtc ctt gct tct tac tta ggt ggg ctg att aat tcc ctg aca cac aca			480
Val Leu Ala Ser Tyr Leu Gly Gly Leu Ile Asn Ser Leu Thr His Thr			
145	150	155	160
ata ggt ttg ctc aaa tta gac ttc tgt ggt cct aat att gtg aat cat			528
Ile Gly Leu Leu Lys Leu Asp Phe Cys Gly Pro Asn Ile Val Asn His			
165	170	175	
tat ttc tgt gat gtt cct cct cct ctg agg ctt tct tgc tct gat gct			576
Tyr Phe Cys Asp Val Pro Pro Leu Leu Arg Leu Ser Cys Ser Asp Ala			
180	185	190	
cat atc aat gaa atg ctg ccc ttg gtc ttc tct ggg ctg att gca atg			624
His Ile Asn Glu Met Leu Pro Leu Val Phe Ser Gly Leu Ile Ala Met			
195	200	205	
ttc act ttc att gtc att atg gtg tct tat atc tgc atc atc att gcc			672
Phe Thr Phe Ile Val Ile Met Val Ser Tyr Ile Cys Ile Ile Ile Ala			
210	215	220	
atc cag aga atc cat gca gct gag gga agg tac aaa gcc ttc tcc act			720
Ile Gln Arg Ile His Ala Ala Glu Gly Arg Tyr Lys Ala Phe Ser Thr			
225	230	235	240
tgt gtc tcc cac cta acc acg gtg acc tta ttc tat agg tct gtt tct			768
Cys Val Ser His Leu Thr Thr Val Thr Leu Phe Tyr Gly Ser Val Ser			
245	250	255	
ttt agt tat atc cag cca agt tct cag tat tcc ttg gaa cag gag aag			816
Phe Ser Tyr Ile Gln Pro Ser Ser Gln Tyr Ser Leu Glu Gln Glu Lys			
260	265	270	
gtc ttg gct gtg ttt tat aca ctg gtg atc ccc atg cta aac cca att			864
Val Leu Ala Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu			
275	280	285	
att tat agc ctg aga aat aag gat gta aaa gat gca gcc aaa agg ttg			912
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Ala Lys Arg Leu			
290	295	300	

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Leu Ile Tyr Phe Ile Thr Leu Leu Asp Asn Leu Gly Ile Ile Ile Leu
 35 40 45

Ile Trp Leu Asn Ala Gln Leu His Thr Pro Met Tyr Phe Phe Leu Gly
 50 55 60

Asn Leu Ser Phe Cys Asp Ile Cys Tyr Ser Thr Val Phe Ala Pro Lys
 65 70 75 80

Met Leu Val Asn Phe Leu Ser Lys His Lys Ser Ser Thr Phe Ser Gly
 85 90 95

Cys Val Leu Gln Ser Phe Pro Phe Ala Val Tyr Val Thr Thr Lys Asp
 100 105 110

Ile Leu Leu Ser Met Met Ala Tyr Asp His Tyr Val Ala Ile Ala Asn
 115 120 125

Pro Leu Leu Tyr Thr Val Ile Met Ala Gln Lys Val Cys Ile Gln Met
 130 135 140

Val Leu Ala Ser Tyr Leu Gly Gly Leu Ile Asn Ser Leu Thr His Thr
 145 150 155 160

Ile Gly Leu Leu Lys Leu Asp Phe Cys Gly Pro Asn Ile Val Asn His
 165 170 175

Tyr Phe Cys Asp Val Pro Pro Leu Leu Arg Leu Ser Cys Ser Asp Ala
 180 185 190

His Ile Asn Glu Met Leu Pro Leu Val Phe Ser Gly Leu Ile Ala Met

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195 200 205

Phe Thr Phe Ile Val Ile Met Val Ser Tyr Ile Cys Ile Ile Ile Ala
210 215 220

Ile Gln Arg Ile His Ala Ala Glu Gly Arg Tyr Lys Ala Phe Ser Thr
225 230 235 240

Cys Val Ser His Leu Thr Thr Val Thr Leu Phe Tyr Gly Ser Val Ser
245 250 255

Phe Ser Tyr Ile Gln Pro Ser Ser Gln Tyr Ser Leu Glu Gln Glu Lys
260 265 270

Val Leu Ala Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu
275 280 285

Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Ala Lys Arg Leu
290 295 300

Ile Trp Trp Gly Lys Asn Pro Thr
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att acc aat aac cca gag atg aaa gtg acc cta ttt gct gta ttc ttg 96
Ile Thr Asn Asn Pro Glu Met Lys Val Thr Leu Phe Ala Val Phe Leu
20 25 30
gct gtt tat atc att aat ttc tca gca aat ctt gga atg ata gtt tta 144
Ala Val Tyr Ile Ile Asn Phe Ser Ala Asn Leu Gly Met Ile Val Leu
35 40 45
atc aga atg gat tac caa ctt cac aca cca atg tat ttc ttc ctc agt 192
Ile Arg Met Asp Tyr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50 55 60
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His Leu Ser Phe Cys Asp Leu Cys Tyr Ser Thr Ala Thr Gly Pro Lys

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65	70	75	80	
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Met Leu Val Asp Leu Leu Ala Lys Asn Lys Ser Ile Pro Phe Tyr Gly				
	85	90	95	
tgt gct ctg caa ttc ttg gtc ttc tgt atc ttt gca gat tct gag tgt				336
Cys Ala Leu Gln Phe Leu Val Phe Cys Ile Phe Ala Asp Ser Gln Cys				
	100	105	110	
cta ctg ctg tca gtg atg gcc ttt gat cgg tac aag gcc atc atc aac				384
Leu Leu Leu Ser Val Met Ala Phe Asp Arg Tyr Lys Ala Ile Ile Asn				
	115	120	125	
ccc ctg ctc tat aca gtc aac atg tct agc aga gtg tgc tat cta ctc				432
Pro Leu Leu Tyr Thr Val Asp Met Ser Ser Arg Val Cys Tyr Leu Leu				
	130	135	140	
ttg act ggg gtt tat ctg gtg gga ata gca gat gct ttg ata cat atg				480
Leu Thr Gly Val Tyr Leu Val Gly Ile Ala Asp Ala Leu Ile His Met				
	145	150	155	160
aca ctg gcc ttc cgc cta tgc ttc tgt ggg tct aat gag att aat cat				528
Thr Leu Ala Phe Arg Leu Cys Phe Cys Gly Ser Asn Glu Ile Asn His				
	165	170	175	
ttc ttc tgt gat atc cct cct ctc tta tta ctc tct tgc tca gat aca				576
Phe Phe Cys Asp Ile Pro Pro Leu Leu Leu Ser Cys Ser Asp Thr				
	180	185	190	
cag gtc aat gag tta gtg tta ttc acc gtc ttt ggt ttt att gaa ctg				624
Gln Val Asn Glu Leu Val Leu Phe Thr Val Phe Gly Phe Ile Glu Leu				
	195	200	205	
agt acc att tca gga gtt ttc att tct tat tgt tat atc atc cta tca				672
Ser Thr Ile Ser Gly Val Phe Ile Ser Tyr Cys Tyr Ile Ile Leu Ser				
	210	215	220	
gtc ttg gag ata cac tct gct gag ggg agg ttc aaa gct ctc tct aca				720
Val Leu Glu Ile His Ser Ala Glu Gly Arg Phe Lys Ala Leu Ser Thr				
	225	230	235	240
tgc act toc cac tta tct gog gtt gca att ttc cag gga act ctg ctc				768
Cys Thr Ser His Leu Ser Ala Val Ala Ile Phe Gln Gly Thr Leu Leu				
	245	250	255	
ttt atg tat ttc cgg cca agt tct tcc tat tct cta gat caa gat aaa				816
Phe Met Tyr Phe Arg Pro Ser Ser Tyr Ser Leu Asp Gln Asp Lys				
	260	265	270	
atg acc tca ttg ttt tac acc ctt gtg gtt ccc atg ttg aac ccc ctg				864
Met Thr Ser Leu Phe Tyr Thr Leu Val Val Pro Met Leu Asn Pro Leu				
	275	280	285	
att tat agc ctg agg aac aag gat gtg aaa gag gcc ctg aaa aaa ctg				912
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Lys Lys Leu				
	290	295	300	
aaa aat gaa att tta ttt taa				933
Lys Asn Glu Ile Leu Phe				
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<210> 520
 <211> 310
 <212> PRT
 <213> Homo Sapiens
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 Ile Thr Asn Asn Pro Glu Met Lys Val Thr Leu Phe Ala Val Phe Leu
 20 25 30
 Ala Val Tyr Ile Ile Asn Phe Ser Ala Asn Leu Gly Met Ile Val Leu
 35 40 45
 Ile Arg Met Asp Tyr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 His Leu Ser Phe Cys Asp Leu Cys Tyr Ser Thr Ala Thr Gly Pro Lys
 65 70 75 80
 Met Leu Val Asp Leu Leu Ala Lys Asn Lys Ser Ile Pro Phe Tyr Gly
 85 90 95
 Cys Ala Leu Gln Phe Leu Val Phe Cys Ile Phe Ala Asp Ser Glu Cys
 100 105 110
 Leu Leu Leu Ser Val Met Ala Phe Asp Arg Tyr Lys Ala Ile Ile Asn
 115 120 125
 Pro Leu Leu Tyr Thr Val Asn Met Ser Ser Arg Val Cys Tyr Leu Leu
 130 135 140
 Leu Thr Gly Val Tyr Leu Val Gly Ile Ala Asp Ala Leu Ile His Met
 145 150 155 160
 Thr Leu Ala Phe Arg Leu Cys Phe Cys Gly Ser Asn Glu Ile Asn His
 165 170 175
 Phe Phe Cys Asp Ile Pro Pro Leu Leu Leu Leu Ser Cys Ser Asp Thr
 180 185 190
 Gln Val Asn Glu Leu Val Leu Phe Thr Val Phe Gly Phe Ile Glu Leu
 195 200 205
 Ser Thr Ile Ser Gly Val Phe Ile Ser Tyr Cys Tyr Ile Ile Leu Ser

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210 215 220
 Val Leu Glu Ile His Ser Ala Glu Gly Arg Phe Lys Ala Leu Ser Thr
 225 230 235 240
 Cys Thr Ser His Leu Ser Ala Val Ala Ile Phe Gln Gly Thr Leu Leu
 245 250 255
 Phe Met Tyr Phe Arg Pro Ser Ser Ser Tyr Ser Leu Asp Gln Asp Lys
 260 265 270
 Met Thr Ser Leu Phe Tyr Thr Leu Val Val Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Lys Lys Leu
 290 295 300
 Lys Asn Glu Ile Leu Phe
 305 310

 <210> 521
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 <212> DNA
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 <220>
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 <222> (1)..(978)
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 aat ttt act gaa gtc acc atg ttt ata tta ata ago ttc aca gaa gaa 96
 Asn Phe Thr Glu Val Thr Met Phe Ile Leu Ile Ser Phe Thr Glu Glu
 20 25 30
 ttt gat gtg caa gtc ttc cta ttt tta tta ttt tta gca atc tat cta 144
 Phe Asp Val Gln Val Phe Leu Phe Leu Leu Phe Leu Ala Ile Tyr Leu
 35 40 45
 ttc act cta ata ggc aat tta ggg ctg gtt gta cag atc att ggg gat 192
 Phe Thr Leu Ile Gly Asn Leu Gly Leu Val Val Pro Ile Ile Gly Asp
 50 55 60
 ttc tgg ctt cac agc cca atg tac tat ttt ctt ggt gtt tta tca ttc 240
 Phe Trp Leu His Ser Pro Met Tyr Tyr Phe Leu Gly Val Leu Ser Phe
 65 70 75 80
 ttg gat gtc tgc tat tct aca gtt gtc act cca aaa atg ttg gtc aat 288
 Leu Asp Val Cys Tyr Ser Thr Val Val Thr Pro Lys Met Leu Val Asn

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85	90	95	
ttc ctg gca aaa aat aaa tct att tca ttt ctt gga tgt gca aca cag			336
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100	105	110	
atg ttt ctt gct tgt act ttt gga acc aca gaa tgc ttt ctc ttg gct			384
Met Phe Leu Ala Cys Thr Phe Gly Thr Thr Glu Cys Phe Leu Leu Ala			
115	120	125	
gca atg gct tat gat cgc tat gta gcc atc tac aac cct ctc ctg tat			432
Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr Asn Pro Leu Leu Tyr			
130	135	140	
tca gtg agc atg tca ccc aga gtc tat gtg cca ctc atc act gct tcc			480
Ser Val Ser Met Ser Pro Arg Val Tyr Val Pro Leu Ile Thr Ala Ser			
145	150	155	160
tat gtt gct agc att tta cat gct act ata cat aca gtg gct aca ttt			528
Tyr Val Ala Ser Phe Ile Leu His Ala Thr Ile His Thr Val Ala Thr Phe			
165	170	175	
agc ctg tcc ttc tgt gga tcc aat gaa att agg cat gtc ttt tgt aat			576
Ser Leu Ser Ser Cys Gly Ser Asn Glu Ile Arg His Val Phe Cys Asn			
180	185	190	
atg cct cct ctg ctt gct att tct tgt tct gac act cac gta atc cag			624
Met Pro Leu Leu Ala Ile Ser Cys Ser Asp Thr His Val Ile Gln			
195	200	205	
ctt cta ttc ttc tac ttt gtg ggc tct att gag ata gtc act atc ctg			672
Leu Leu Phe Phe Tyr Phe Val Gly Ser Ile Glu Ile Val Thr Ile Leu			
210	215	220	
att gtc ctg atc tcc tat ggt ttt att ctg ttg gcc att ctg aag atg			720
Ile Val Leu Ile Ser Tyr Gly Phe Ile Leu Leu Ala Ile Leu Lys Met			
225	230	235	240
cag tct gct gaa ggg agg aga aaa gtc ttc tct aca tgt gga gct cac			768
Gln Ser Ala Glu Gly Arg Arg Lys Val Phe Ser Thr Cys Gly Ala His			
245	250	255	
cta act gga gtg aca att tat cat ggg aca atc ctc ttc atg tat gtg			816
Leu Thr Gly Val Thr Ile Tyr His Gly Thr Ile Leu Phe Met Tyr Val			
260	265	270	
aga cca agt tcc agc tac act tgc gac aat gac atg ata gtg tca ata			864
Arg Pro Ser Ser Ser Tyr Thr Ser Asp Asn Asp Met Ile Val Ser Ile			
275	280	285	
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Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu			
290	295	300	
cgg aac aaa gat gta aag gag gca atc aaa aga ttg ctt gtg aga aat			960
Arg Asn Lys Asp Val Lys Glu Ala Ile Lys Arg Leu Leu Val Arg Asn			
305	310	315	320
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Trp Phe Ile Asn Lys Leu			
325			

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<210> 522
<211> 326
<212> PRT
<213> Homo Sapiens

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20      25      30

Phe Asp Val Gln Val Phe Leu Phe Leu Leu Phe Leu Ala Ile Tyr Leu
35      40      45

Phe Thr Leu Ile Gly Asn Leu Gly Leu Val Val Pro Ile Ile Gly Asp
50      55      60

Phe Trp Leu His Ser Pro Met Tyr Tyr Phe Leu Gly Val Leu Ser Phe
65      70      75      80

Leu Asp Val Cys Tyr Ser Thr Val Val Thr Pro Lys Met Leu Val Asn
85      90      95

Phe Leu Ala Lys Asn Lys Ser Ile Ser Phe Leu Gly Cys Ala Thr Gln
100     105     110

Met Phe Leu Ala Cys Thr Phe Gly Thr Thr Glu Cys Phe Leu Leu Ala
115     120     125

Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr Asn Pro Leu Leu Tyr
130     135     140

Ser Val Ser Met Ser Pro Arg Val Tyr Val Pro Leu Ile Thr Ala Ser
145     150     155     160

Tyr Val Ala Ser Ile Leu His Ala Thr Ile His Thr Val Ala Thr Phe
165     170     175

Ser Leu Ser Phe Cys Gly Ser Asn Glu Ile Arg His Val Phe Cys Asn
180     185     190

Met Pro Pro Leu Leu Ala Ile Ser Cys Ser Asp Thr His Val Ile Gln
195     200     205

Leu Leu Phe Phe Tyr Phe Val Gly Ser Ile Glu Ile Val Thr Ile Leu

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210 215 220

Ile Val Leu Ile Ser Tyr Gly Phe Ile Leu Leu Ala Ile Leu Lys Met
235 230 235 240

Gln Ser Ala Glu Gly Arg Arg Lys Val Phe Ser Thr Cys Gly Ala His
245 250 255

Leu Thr Gly Val Thr Ile Tyr His Gly Thr Ile Leu Phe Met Tyr Val
260 265 270

Arg Pro Ser Ser Ser Tyr Thr Ser Asp Asn Asp Met Ile Val Ser Ile
275 280 285

Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu
290 295 300

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305 310 315 320

Trp Phe Ile Asn Lys Leu
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<212> DNA
<213> Homo Sapiens

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<222> (1)..(936)
<223>

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gga ctg aca ctt tct gaa gag atc cag atg gct ctg ttt atg cta ttt 96
Gly Leu Thr Leu Ser Glu Glu Ile Gln Met Ala Leu Phe Met Leu Phe
20 25 30
ctc ctg ata tac cta att act atg ctg ggg aat gtg ggg atg ata ttg 144
Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu
35 40 45
ata atc cgc ctg gac ctc cag ctt cac act ccc atg tat ttt ttc ctt 192
Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
50 55 60
act cac ctg tca ttt att gac ctc agt tac tca act gtc gtc aca cct 240
Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro

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Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly	85	90	95	
tgc ttt gcc cag atg tta ttt ttt gcc ttc ttg ggt act gct gaa tgt				326
Cys Phe Ala Gln Met Phe Phe Phe Ala Phe Leu Gly Thr Ala Glu Cys	100	105	110	
tac ctt ctc tcc tca atg gcc tat gat cgc tat gca gcg atc tgc agt				384
Tyr Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Ser	115	120	125	
oct cta cac tac aca gtt att atg tcc aaa agg ctc tgc ctc gct ctc				432
Pro Leu His Tyr Thr Val Ile Met Ser Lys Arg Leu Cys Leu Ala Leu	130	135	140	
atc act ggg cct tat gtg att ggc ttt ata gac tcc ttt gtc aac gtg				480
Ile Thr Gly Pro Tyr Val Ile Gly Phe Ile Asp Ser Phe Val Asn Val	145	150	155	160
gtt tcc atg agc aga ttg cat ttc tgc gac tca aac gta att cat cgc				528
Val Ser Met Ser Arg Leu His Phe Cys Asp Ser Asn Val Ile His His	165	170	175	
ttt ttc tgt gac act tcc cca att tta gct ctg tcc tgc act gat aca				576
Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr	180	185	190	
tac aac acc gaa atc ctg ata ttc att att gtt ggt tcc acc ctg atg				624
Tyr Asn Thr Glu Ile Leu Ile Phe Ile Ile Val Gly Ser Thr Leu Met	195	200	205	
gtg tcc ctt ttc aca ata tct gca tcc tat gtg ttc att ctc ttt acc				672
Val Ser Leu Phe Thr Ile Ser Ala Ser Tyr Val Phe Ile Leu Phe Thr	210	215	220	
atc ctg aaa att aat tcc act tca gga sag cag aaa gct ttc tct act				720
Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr	225	230	235	240
tgc gtc tct cat ctc ttg gga gtc acc atc ttt tat agc act ctg att				768
Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Ser Thr Leu Ile	245	250	255	
ttt act tat tta aaa cca aga aag tct tat tcc ttg gga aga gat caa				816
Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln	260	265	270	
gtg gct tct gtt ttt tat act att gtg att ccc atg ctg aat cca ctc				864
Val Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu	275	280	285	
att tat agt ctt aga aac aaa gag gtg aaa aat gct gtc atc aga gtc				912
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Val Ile Arg Val	290	295	300	
atg cag aga aga cag gac tcc agg taa				939
Met Gln Arg Arg Gln Asp Ser Arg	305	310		

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<210> 524
 <211> 312
 <212> PRT
 <213> Homo Sapiens

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Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu
 35 40 45

Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60

Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro
 65 70 75 80

Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly
 85 90 95

Cys Phe Ala Gln Met Phe Phe Phe Ala Phe Leu Gly Thr Ala Glu Cys
 100 105 110

Tyr Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Ser
 115 120 125

Pro Leu His Tyr Thr Val Ile Met Ser Lys Arg Leu Cys Leu Ala Leu
 130 135 140

Ile Thr Gly Pro Tyr Val Ile Gly Phe Ile Asp Ser Phe Val Asn Val
 145 150 155 160

Val Ser Met Ser Arg Leu His Phe Cys Asp Ser Asn Val Ile His His
 165 170 175

Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr
 180 185 190

Tyr Asn Thr Glu Ile Leu Ile Phe Ile Ile Val Gly Ser Thr Leu Met
 195 200 205

Val Ser Leu Phe Thr Ile Ser Ala Ser Tyr Val Phe Ile Leu Phe Thr

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210 215 220
 Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr
 225 330 235 240
 Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Ser Thr Leu Ile
 245 250 255
 Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln
 260 265 270
 Val Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Val Ile Arg Val
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 Met Gln Arg Arg Gln Asp Ser Arg
 305 310

 <210> 525
 <211> 939
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 Met Met Gly Arg Arg Asn Asp Thr Asn Val Ala Asp Phe Ile Leu Thr
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 gga ctg tca gac tct gaa gag gtc cag atg gct ctg ttt atg cta ttt 96
 Gly Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Met Leu Phe
 20 25 30
 ctc ctc ata tac cta att act atg ctg ggg aat gtg ggg atg cta ttg 144
 Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Leu Leu
 35 40 45
 ata atc cgc ctg gac ctc cag ctt cac act ccc atg tat ttt ttc ctt 192
 Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 act cac ctg tca ttt att gac ctc agt tac tca act gtc gtc aca cct 240
 Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro
 65 70 75 80
 aaa acc tta gcg aac tta ctg act tcc aac tat att tcc ttc acg ggc 288
 Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly

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	85	90	95	
tgc ttt gcc cag atg ttc tgt ttt gtc ttc ttg ggt act gct gaa tgt				336
Cys Phe Ala Gln Met Phe Cys Phe Val Phe Leu Gly Thr Ala Glu Cys				
	100	105	110	
tat ctt ctc tcc tca atg gcc tat gat cgc tat gca gcg atc tgc agt				384
Tyr Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Ser				
	115	120	125	
ctt cta cac tac aca gtt att atg tcc aaa agg ctc tgc ctc gct ctc				432
Pro Leu His Tyr Thr Val Ile Met Ser Lys Arg Leu Cys Leu Ala Leu				
	130	135	140	
atc act ggg cot tat gtg att ggc ttt atg gac tcc ttt gtc aat gtg				480
Ile Thr Gly Pro Tyr Val Ile Gly Phe Met Asp Ser Phe Val Asn Val				
	145	150	155	160
gtt tcc atg agc aga ttg cat ttc tgt gac tca aac ata att cat cac				528
Val Ser Met Ser Arg Leu His Phe Cys Asp Ser Asn Ile Ile His His				
	165	170	175	
ttt ttc tgt gac act tcc cca att tta gct ctg tcc tgc act gac aca				576
Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr				
	180	185	190	
gac aac act gaa atg ctg ata ttc att atc gct ggt tcc acc ctg atg				624
Asp Asn Thr Glu Met Leu Ile Phe Ile Ile Ala Gly Ser Thr Leu Met				
	195	200	205	
gtg tcc ctt atc aca ata tct gca tcc tat gtg tcc att ctc tct acc				672
Val Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr				
	210	215	220	
atc ctg aaa att aat tcc act tca gga aag cag aaa gct ttc tct act				720
Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr				
	225	230	235	240
tgc gtc tot cat ctc ttg gga gtc acc atc ttc tat gga act atg att				768
Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile				
	245	250	255	
ttt act tac tta aag cca aga aag tot tat tcc ttg gga aga gat caa				816
Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln				
	260	265	270	
gtg gct cot gtg ttt tat act att gtg att ccc atg ctg aat cca ctc				864
Val Ala Pro Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu				
	275	280	285	
att tat agt ctt aga aac aga gaa gtg aaa aat gct ctc att aga gtc				912
Ile Tyr Ser Leu Arg Asn Arg Glu Val Lys Asn Ala Leu Ile Arg Val				
	290	295	300	
atg cag aga aga cag gac tcc agg tag				939
Met Gln Arg Arg Gln Asp Ser Arg				
	305	310		
<210> 526				
<211> 312				

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<212> PRT

<213> Homo Sapiens

<400> 526

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Gly Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Met Leu Phe
 20 25 30

Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Leu Leu
 35 40 45

Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60

Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro
 65 70 75 80

Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly
 85 90 95

Cys Phe Ala Gln Met Phe Cys Phe Val Phe Leu Gly Thr Ala Glu Cys
 100 105 110

Tyr Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Ser
 115 120 125

Pro Leu His Tyr Thr Val Ile Met Ser Lys Arg Leu Cys Leu Ala Leu
 130 135 140

Ile Thr Gly Pro Tyr Val Ile Gly Phe Met Asp Ser Phe Val Asn Val
 145 150 155 160

Val Ser Met Ser Arg Leu His Phe Cys Asp Ser Asn Ile Ile His His
 165 170 175

Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr
 180 185 190

Asp Asn Thr Glu Met Leu Ile Phe Ile Ile Ala Gly Ser Thr Leu Met
 195 200 205

Val Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr
 210 215 220

Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr

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225 230 235 240

Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile
245 250 255

Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln
260 265 270

Val Ala Pro Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu
275 280 285

Ile Tyr Ser Leu Arg Asn Arg Glu Val Lys Asn Ala Leu Ile Arg Val
290 295 300

Met Gln Arg Arg Gln Asp Ser Arg
305 310

<210> 527
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<223>

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ctc aca agg cgg cct gag ctg cag att aac ctt ttt gga gtc ttc ctc 96
Leu Thr Arg Arg Pro Glu Leu Gln Ile Pro Leu Phe Gly Val Phe Leu
20 25 30
gtc atc tac cta atc aca gtc gtg ggc aac cta act atg atc att ttg 144
Val Ile Tyr Leu Ile Thr Val Val Gly Asn Leu Thr Met Ile Ile Leu
35 40 45
acc aac ctg gac tcc cac tta cat aca cot atg tac ttt tct atc aga 192
Thr Lys Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Ser Ile Arg
50 55 60
cat ttg gct ttt gtt gat ctt ggt aat tct act gtc att tgt ccc aag 240
His Leu Ala Phe Val Asp Leu Gly Asn Ser Thr Val Ile Cys Pro Lys
65 70 75 80
gtg ctg gca aat ttt gtt gtg gat cga aat act att tcc tat tat gca 288
Val Leu Ala Asn Phe Val Val Asp Arg Asn Thr Ile Ser Tyr Tyr Ala
85 90 95
tgt gct gca cag ctg gca ttc ttc ctt atg ttc att atc agt gaa ttt 336
Cys Ala Ala Gln Leu Ala Phe Phe Leu Met Phe Ile Ile Ser Glu Phe

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100	105	110	
ttc atc ctg tca gcc atg gcc tat gac cgc tat gtg gcc att tgt aac Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn 115 120 125			384
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gtg gcc att caa tat ctc tac agc aca ttt cag gct ctg atg ttc act Val Gly Ile Gln Tyr Leu Tyr Ser Thr Phe Gln Ala Leu Met Phe Thr 145 150 155 160			480
att aag att ttt aca ttg acc ttc tgt gcc tct aat gtc atc agt cat Ile Lys Ile Phe Thr Leu Thr Phe Cys Gly Ser Asn Val Ile Ser His 165 170 175			528
ttt tac tgt gat gat gtt cct ttg cta cct atg ctt tgc tca aat gca Phe Tyr Cys Asp Asp Val Pro Leu Leu Pro Met Leu Cys Ser Asn Ala 180 185 190			576
cag gaa ata gaa ttg ttg agc ata cta ttt tct gta ttt aat ttg atc Gln Glu Ile Gln Leu Leu Ser Ile Leu Phe Ser Val Phe Asn Leu Ile 195 200 205			624
tcg tcc ttt ctg ata gtc tta gtg tcc tac atg ttg att ttg tta gct Ser Ser Phe Leu Ile Val Leu Val Ser Tyr Met Leu Ile Leu Leu Ala 210 215 220			672
ata tgt caa atg cat tot gca gag gcc agg aaa aag gct ttc tcc aca Ile Cys Gln Met His Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr 225 230 235 240			720
tgt ggt tcc cat ttg aca gtg gtg gtt gtg ttc tat ggg tct cta ctc Cys Gly Ser His Leu Thr Val Val Val Val Phe Tyr Gly Ser Leu Leu 245 250 255			768
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atg gct tct gtg ttt tac act tta gta atc ccc atg ctt aac cct ttg Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu 275 280 285			864
att tac agc tta aga aac gaa gag gtg aaa aat gcc ttc tat aag ctc Ile Tyr Ser Leu Arg Asn Glu Glu Val Lys Asn Ala Phe Tyr Lys Leu 290 295 300			912
ttt gag aat tga Phe Glu Asn 305			924
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<400> 528			

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Leu Thr Arg Arg Pro Glu Leu Gln Ile Pro Leu Phe Gly Val Phe Leu
 20 25 30

Val Ile Tyr Leu Ile Thr Val Val Gly Asn Leu Thr Met Ile Ile Leu
 35 40 45

Thr Lys Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Ser Ile Arg
 50 55 60

His Leu Ala Phe Val Asp Leu Gly Asn Ser Thr Val Ile Cys Pro Lys
 65 70 75 80

Val Leu Ala Asn Phe Val Val Asp Arg Asn Thr Ile Ser Tyr Tyr Ala
 85 90 95

Cys Ala Ala Gln Leu Ala Phe Phe Leu Met Phe Ile Ile Ser Glu Phe
 100 105 110

Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125

Pro Leu Leu Tyr Tyr Val Ile Met Ser Gln Arg Leu Cys His Val Leu
 130 135 140

Val Gly Ile Gln Tyr Leu Tyr Ser Thr Phe Gln Ala Leu Met Phe Thr
 145 150 155 160

Ile Lys Ile Phe Thr Leu Thr Phe Cys Gly Ser Asn Val Ile Ser His
 165 170 175

Phe Tyr Cys Asp Asp Val Pro Leu Leu Pro Met Leu Cys Ser Asn Ala
 180 185 190

Gln Gln Ile Gln Leu Leu Ser Ile Leu Phe Ser Val Phe Asn Leu Ile
 195 200 205

Ser Ser Phe Leu Ile Val Leu Val Ser Tyr Met Leu Ile Leu Leu Ala
 210 215 220

Ile Cys Gln Met His Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr
 225 230 235 240

Cys Gly Ser His Leu Thr Val Val Val Val Phe Tyr Gly Ser Leu Leu

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245                250                255

Phe Met Tyr Met Gln Pro Asn Ser Thr His Phe Phe Asp Thr Asp Lys
260                265                270

Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu
275                280                285

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290                295                300

Phe Glu Asn
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<212> DNA
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Leu Thr Asp His Ala Glu Leu Lys Ala Val Leu Phe Val Val Phe Leu
20      25      30
gtg att tac gcc att acc ttg ttg agg aat ctg ggc atg atc ctc tta      144
Val Ile Tyr Ala Ile Thr Leu Leu Arg Asn Leu Gly Met Ile Leu Leu
35      40      45
atc caa atc acc tcc aaa ctc cac aca ccc atg tac ttt tta ctc agc      192
Ile Gln Ile Thr Ser Lys Leu His Thr Pro Met Tyr Phe Leu Leu Ser
50      55      60
tgt ctt tca ttt gtg gat gcc tgc tat tca tct gca att gca ccc aaa      240
Cys Leu Ser Phe Val Asp Ala Cys Tyr Ser Ser Ala Ile Ala Pro Lys
65      70      75      80
atg ctg gtg aac ctc ctg gtt gtg aag gca aca att tct ttc tct gct      288
Met Leu Val Asn Leu Leu Val Val Lys Ala Thr Ile Ser Phe Ser Ala
85      90      95
tgc atg gta cag cat ttg tgt ttc gga gtg ttc atc acc aca gaa ggc      336
Cys Met Val Gln His Leu Cys Phe Gly Val Phe Ile Thr Thr Glu Gly
100      105      110
ttc tta ctg tca gtg atg gcc tat gac cgc tat gtg gcc att gtg agt      384
Phe Leu Leu Ser Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Val Ser

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115 120 125

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Pro Leu Leu Tyr Thr Val Ala Met Ser Asp Arg Lys Cys Val Glu Leu
130 135 140

gtc aca gga tca tgg ata ggt gga ata gtt aac aca tta atc cac aca 480
Val Thr Gly Ser Trp Ile Gly Gly Ile Val Asn Thr Leu Ile His Thr
145 150 155 160

atc agc ttg agg aga ctg tcc ttt tgt agg cta aat gct gtc agc cac 528
Ile Ser Leu Arg Arg Leu Ser Phe Cys Arg Leu Asn Ala Val Ser His
165 170 175

ttc ttc tgt gac att cct tca ctg cta aag ctg tca tgt tct gac acc 576
Phe Phe Cys Asp Ile Pro Ser Leu Leu Lys Leu Ser Cys Ser Asp Thr
180 185 190

tcc atg aat gag ttg ttg ctg tta acc ttc tcc gga gtc att gcc atg 624
Ser Met Asn Glu Leu Leu Leu Leu Thr Phe Ser Gly Val Ile Ala Met
195 200 205

gcc acc ttc ttg act gtg atc att tcc tac atc ttc att gct ttt gct 672
Ala Thr Phe Leu Thr Val Ile Ile Ser Tyr Ile Phe Ile Ala Phe Ala
210 215 220

agc cta agg atc cac tca gca tca gcc aga cag caa gcc ttc tcc acc 720
Ser Leu Arg Ile His Ser Ala Ser Gly Arg Gln Gln Ala Phe Ser Thr
225 230 235 240

tgt gcc tct cag ctg act gct gtg acc ata ttc tat ggt acc tta atc 768
Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Ile
245 250 255

ttt agc tac att cag cca agc tcc cag tat ttt gtg gaa caa gag aaa 816
Phe Ser Tyr Ile Gln Pro Ser Ser Gln Tyr Phe Val Glu Gln Glu Lys
260 265 270

gtg gtt tct atg ttc tat acg cta ggg att ccc atg tta aac ctg ttg 864
Val Val Ser Met Phe Tyr Thr Leu Gly Ile Pro Met Leu Asn Leu Leu
275 280 285

ata cac agt ttg aga aac aag gac gta aag gag gca gtg aaa agg gcc 912
Ile His Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Val Lys Arg Ala
290 295 300

ata gaa atg aaa cat ttc ctg tgt taa 939
Ile Glu Met Lys His Phe Leu Cys
305 310

<210> 530
<211> 312
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Leu Thr Asp His Ala Glu Leu Lys Ala Val Leu Phe Val Val Phe Leu
 20 25 30
 Val Ile Tyr Ala Ile Thr Leu Leu Arg Asn Leu Gly Met Ile Leu Leu
 35 40 45
 Ile Gln Ile Thr Ser Lys Leu His Thr Pro Met Tyr Phe Leu Leu Ser
 50 55 60
 Cys Leu Ser Phe Val Asp Ala Cys Tyr Ser Ser Ala Ile Ala Pro Lys
 65 70 75 80
 Met Leu Val Asn Leu Leu Val Val Lys Ala Thr Ile Ser Phe Ser Ala
 85 90 95
 Cys Met Val Gln His Leu Cys Phe Gly Val Phe Ile Thr Thr Glu Gly
 100 105 110
 Phe Leu Leu Ser Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Val Ser
 115 120 125
 Pro Leu Leu Tyr Thr Val Ala Met Ser Asp Arg Lys Cys Val Glu Leu
 130 135 140
 Val Thr Gly Ser Trp Ile Gly Gly Ile Val Asn Thr Leu Ile His Thr
 145 150 155 160
 Ile Ser Leu Arg Arg Leu Ser Phe Cys Arg Leu Asn Ala Val Ser His
 165 170 175
 Phe Phe Cys Asp Ile Pro Ser Leu Leu Lys Leu Ser Cys Ser Asp Thr
 180 185 190
 Ser Met Asn Glu Leu Leu Leu Leu Thr Phe Ser Gly Val Ile Ala Met
 195 200 205
 Ala Thr Phe Leu Thr Val Ile Ile Ser Tyr Ile Phe Ile Ala Phe Ala
 210 215 220
 Ser Leu Arg Ile His Ser Ala Ser Gly Arg Gln Gln Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Ile
 245 250 255
 Phe Ser Tyr Ile Gln Pro Ser Ser Gln Tyr Phe Val Glu Gln Glu Lys

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250          265          270
Val Val Ser Met Phe Tyr Thr Leu Gly Ile Pro Met Leu Asn Leu Leu
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290          295          300

Ile Glu Met Lys His Phe Leu Cys
305          310

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1      5      10      15
ctg aca gac gac cca gtg cta gag aag atc ctg ttt ggg gtg ttc ctg      96
Leu Thr Asp Asp Pro Val Leu Glu Lys Ile Leu Phe Gly Val Phe Leu
20     25     30
ggg atc tac cta atc aca ctg gca ggc aac ctg tgc atg atc ctg ctg      144
Ala Ile Tyr Leu Ile Thr Leu Ala Gly Asn Leu Cys Met Ile Leu Leu
35     40     45
atc agg acc aat tcc caa ctg caa aca ccc atg tat ttc ttc ctt ggt      192
Ile Arg Thr Asn Ser Gln Leu Gln Thr Pro Met Tyr Phe Phe Leu Gly
50     55     60
cac ctc tcc ttt gta gac att tgc tat tct tcc aat gtt act cca aat      240
His Leu Ser Phe Val Asp Ile Cys Tyr Ser Ser Asn Val Thr Pro Asn
65     70     75     80
atg ctg cac aat ttc ctc tca gaa cag aag acc atc tcc tac gct gga      288
Met Leu His Asn Phe Leu Ser Glu Gln Lys Thr Ile Ser Tyr Ala Gly
85     90     95
tgc ttc aca cag tgt ctt ctc ttc atc gcc cta gtg atc act gag ttt      336
Cys Phe Thr Gln Cys Leu Leu Phe Ile Ala Leu Val Ile Thr Glu Phe
100    105    110
tac ttc ctt gct tca atg gca ctg gat cgc tat gta gcc att tgc agc      384
Tyr Phe Leu Ala Ser Met Ala Leu Asp Arg Tyr Val Ala Ile Cys Ser
115    120    125
cct tta cat tac agt tcc agg atg tcc aag aac att tgc atc tct ctg      432
Pro Leu His Tyr Ser Ser Arg Met Ser Lys Asn Ile Cys Ile Ser Leu

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130 135 140

gtc act gtg cct tac atg tat ggc ttc ctt aat ggg ctc tct cag aca 480
Val Thr Val Pro Tyr Met Tyr Gly Phe Leu Asn Gly Leu Ser Gln Thr
145 150 155 160

ctg ctg acc ttt cac tta tcc ttc tgt ggc tcc ctt gaa atc aat cat 528
Leu Leu Thr Phe His Leu Ser Phe Cys Gly Ser Leu Glu Ile Asn His
165 170 175

ttc tac tgc gct gat cct cct ctt atc atg ctg gcc tgc tct gac acc 576
Phe Tyr Cys Ala Asp Pro Pro Leu Ile Met Leu Ala Cys Ser Asp Thr
180 185 190

cgt gtc aaa aag atg gca atg ttt gta gtt gca ggc ttt act ctc tca 624
Arg Val Lys Lys Met Ala Met Phe Val Val Ala Gly Phe Thr Leu Ser
195 200 205

agc tct ctc ttc atc att ctt ctg tcc tat ctt ttc att ttt gca gcg 672
Ser Ser Leu Phe Ile Ile Leu Leu Ser Tyr Leu Phe Ile Phe Ala Ala
210 215 220

atc ttc agg atc cgt tct gct gaa ggc agg cac aaa gcc ttt tct acg 720
Ile Phe Arg Ile Arg Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
225 230 235 240

tgt gct tcc cac ctg aca ata gtc act ttg ttt tat gga acc ctc ttc 768
Cys Ala Ser His Leu Thr Ile Val Thr Leu Phe Tyr Gly Thr Leu Phe
245 250 255

tgc atg tac gta agg cct cca tca gag aag tct gta gag gag tcc aaa 816
Cys Met Tyr Val Arg Pro Pro Ser Glu Lys Ser Val Glu Glu Ser Lys
260 265 270

ata att gca gtc ttt tat act ttt ttg agc cca atg ctg aac cca ttg 864
Ile Ile Ala Val Phe Tyr Thr Phe Leu Ser Pro Met Leu Asn Pro Leu
275 280 285

atc tat agc cta cgg aac aga gat gta atc ctt gcc ata caa caa atg 912
Ile Tyr Ser Leu Arg Asn Arg Asp Val Ile Leu Ala Ile Gln Gln Met
290 295 300

att agg gga aaa tcc ttt tgt aaa att gca gtt tag 948
Ile Arg Gly Lys Ser Phe Cys Lys Ile Ala Val
305 310 315

<210> 532
<211> 315
<212> PRT
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Leu Thr Asp Asp Pro Val Leu Glu Lys Ile Leu Phe Gly Val Phe Leu
20 25 30

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Ala Ile Tyr Leu Ile Thr Leu Ala Gly Asn Leu Cys Met Ile Leu Leu
 35 40 45

Ile Arg Thr Asn Ser Gln Leu Gln Thr Pro Met Tyr Phe Phe Leu Gly
 50 55 60

His Leu Ser Phe Val Asp Ile Cys Tyr Ser Ser Asn Val Thr Pro Asn
 65 70 75 80

Met Leu His Asn Phe Leu Ser Glu Gln Lys Thr Ile Ser Tyr Ala Gly
 85 90 95

Cys Phe Thr Gln Cys Leu Leu Phe Ile Ala Leu Val Ile Thr Glu Phe
 100 105 110

Tyr Phe Leu Ala Ser Met Ala Leu Asp Arg Tyr Val Ala Ile Cys Ser
 115 120 125

Pro Leu His Tyr Ser Ser Arg Met Ser Lys Asn Ile Cys Ile Ser Leu
 130 135 140

Val Thr Val Pro Tyr Met Tyr Gly Phe Leu Asn Gly Leu Ser Gln Thr
 145 150 155 160

Leu Leu Thr Phe His Leu Ser Phe Cys Gly Ser Leu Glu Ile Asn His
 165 170 175

Phe Tyr Cys Ala Asp Pro Pro Leu Ile Met Leu Ala Cys Ser Asp Thr
 180 185 190

Arg Val Lys Lys Met Ala Met Phe Val Val Ala Gly Phe Thr Leu Ser
 195 200 205

Ser Ser Leu Phe Ile Ile Leu Leu Ser Tyr Leu Phe Ile Phe Ala Ala
 210 215 220

Ile Phe Arg Ile Arg Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
 225 230 235 240

Cys Ala Ser His Leu Thr Ile Val Thr Leu Phe Tyr Gly Thr Leu Phe
 245 250 255

Cys Met Tyr Val Arg Pro Pro Ser Glu Lys Ser Val Glu Glu Ser Lys
 260 265 270

Ile Ile Ala Val Phe Tyr Thr Phe Leu Ser Pro Met Leu Asn Pro Leu

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275          280          285

Ile Tyr Ser Leu Arg Asn Arg Asp Val Ile Leu Ala Ile Gln Gln Met
290          295          300

Ile Arg Gly Lys Ser Phe Cys Lys Ile Ala Val
305          310          315

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1      5      10      15
atc ttc aat cac agt ccc acc cac acc ttc ctt ttt tct ctg gtc ctg      96
Ile Phe Asn His Ser Pro Thr His Thr Phe Leu Phe Ser Leu Val Leu
20      25      30
ggc atc ttc tca ctg gca ttg atg gaa aat att tcc atg gtt ctc ctc      144
Gly Ile Phe Ser Leu Ala Leu Met Glu Asn Ile Ser Met Val Leu Leu
35      40      45
atc tac ata gag aaa cag ctc cac acc ccc atg tac ttc ctc ctc agt      192
Ile Tyr Ile Glu Lys Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser
50      55      60
caa ctg tcc ctt atg gac ctc atg ctc atc tgc acc act cta ccc aag      240
Gln Leu Ser Leu Met Asp Leu Met Leu Ile Cys Thr Thr Leu Pro Lys
65      70      75      80
atg atc ttc agc tac ttg tct ggg aag aaa tct atc tct ctg gca ggt      288
Met Ile Phe Ser Tyr Leu Ser Gly Lys Lys Ser Ile Ser Leu Ala Gly
85      90      95
tgt gga act cag ata ttc ttc tat gbg tcc ctg ctt gga got gaa tgt      336
Cys Gly Thr Gln Ile Phe Phe Tyr Val Ser Leu Leu Gly Ala Gln Cys
100      105      110
ttc ttg ttg got gtc atg got tat gac cgc tat gtg gct ata tgt cac      384
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
115      120      125
cct ctt cag tac acc atc ctc atg aat ccg aaa ctc tgt gtc ttc atg      432
Pro Leu Gln Tyr Thr Ile Leu Met Asn Pro Lys Leu Cys Val Phe Met
130      135      140
act gtc gct tcc tgg acc ttg ggg tct ctt gat ggg atc ata gbg ctt      480
Thr Val Ala Ser Trp Thr Leu Gly Ser Leu Asp Gly Ile Ile Val Leu

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145 150 155 160

gca gct gtc ctg tca ttt tct tac tgc agc tot ctg gaa att cat cac 528
 Ala Ala Val Leu Ser Phe Ser Tyr Cys Ser Ser Leu Glu Ile His His
 165 170 175

ttt ttc tgt gat gtt gct gcc ctt tta cct cta tcc tgc aca gaa acc 576
 Phe Phe Cys Asp Val Ala Ala Leu Leu Pro Leu Ser Cys Thr Glu Thr
 180 185 190

tct gca ttt gaa aga cta ctt gtc att tgt tgt gtg gta atg cta atc 624
 Ser Ala Phe Glu Arg Leu Leu Val Ile Cys Cys Val Val Met Leu Ile
 195 200 205

ttt cca gtt tca gtt atc ata ctt tcc tat tcc cat gtc ctt cga gcc 672
 Phe Pro Val Ser Val Ile Ile Leu Ser Tyr Ser His Val Leu Arg Ala
 210 215 220

gtc atc cac atg gcc tct ggg gaa agt cgt cgc aag gcc ttc act acc 720
 Val Ile His Met Gly Ser Gly Glu Ser Arg Arg Lys Ala Phe Thr Thr
 225 230 235 240

tgc tcc tcc cac ctg tot gtg gtc gga ctc tac tac ggt gct gct atg 768
 Cys Ser Ser His Leu Ser Val Val Gly Leu Tyr Tyr Gly Ala Ala Met
 245 250 255

ttc atg tac atg age cca gct tct aaa cat acg cca gac cag gac aag 816
 Phe Met Tyr Met Arg Pro Ala Ser Lys His Thr Pro Asp Gln Asp Lys
 260 265 270

atg gtg tgg gcc ttc tac act att ctc acc cct atg ctg aac cct ctc 864
 Met Val Ser Ala Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Leu
 275 280 285

att tat agc ctc cgc aac aaa gaa gtg ttc agg gca cta cag aag gta 912
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Phe Arg Ala Leu Gln Lys Val
 290 295 300

ctg aag aaa aga aag tta ata tga 936
 Leu Lys Lys Arg Lys Leu Ile
 305 310

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 <212> PRT
 <213> Homo Sapiens

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 20 25 30

Gly Ile Phe Ser Leu Ala Leu Met Glu Asn Ile Ser Met Val Leu Leu
 35 40 45

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Ile Tyr Ile Glu Lys Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser
 50 55 60

Gln Leu Ser Leu Met Asp Leu Met Leu Ile Cys Thr Thr Leu Pro Lys
 65 70 75 80

Met Ile Phe Ser Tyr Leu Ser Gly Lys Lys Ser Ile Ser Leu Ala Gly
 85 90 95

Cys Gly Thr Gln Ile Phe Phe Tyr Val Ser Leu Leu Gly Ala Glu Cys
 100 105 110

Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125

Pro Leu Gln Tyr Thr Ile Leu Met Asn Pro Lys Leu Cys Val Phe Met
 130 135 140

Thr Val Ala Ser Trp Thr Leu Gly Ser Leu Asp Gly Ile Ile Val Leu
 145 150 155 160

Ala Ala Val Leu Ser Phe Ser Tyr Cys Ser Ser Leu Glu Ile His His
 165 170 175

Phe Phe Cys Asp Val Ala Ala Leu Leu Pro Leu Ser Cys Thr Glu Thr
 180 185 190

Ser Ala Phe Glu Arg Leu Leu Val Ile Cys Cys Val Val Met Leu Ile
 195 200 205

Phe Pro Val Ser Val Ile Ile Leu Ser Tyr Ser His Val Leu Arg Ala
 210 215 220

Val Ile His Met Gly Ser Gly Glu Ser Arg Arg Lys Ala Phe Thr Thr
 225 230 235 240

Cys Ser Ser His Leu Ser Val Val Gly Leu Tyr Tyr Gly Ala Ala Met
 245 250 255

Phe Met Tyr Met Arg Pro Ala Ser Lys His Thr Pro Asp Gln Asp Lys
 260 265 270

Met Val Ser Ala Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Leu
 275 280 285

Ile Tyr Ser Leu Arg Asn Lys Glu Val Phe Arg Ala Leu Gln Lys Val

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290

295

300

Leu Lys Lys Arg Lys Leu Ile
305 310

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atc ttc aat cac agc ccc acc cag acc ttc ctc ttc ttt ctg gtc ctg 96
Ile Phe Asn His Ser Pro Thr His Thr Phe Leu Phe Phe Leu Val Leu
20 25 30
gcc atc ttt tca gtc gcc ttc atg gga aac tct gtc atg gtt ctc ctc 144
Ala Ile Phe Ser Val Ala Phe Met Gly Asn Ser Val Met Val Leu Leu
35 40 45
atc tac ctg gac acc cag ctc ccc acc ccc atg tac ctc ctc ctc ago 192
Ile Tyr Leu Asp Thr Gln Leu His Thr Pro Met Tyr Leu Leu Leu Ser
50 55 60
caa ctg tcc ctc atg gac ctc atg ctc atc tgc acc acc gta ccc aag 240
Gln Leu Ser Leu Met Asp Leu Met Leu Ile Cys Thr Thr Val Pro Lys
65 70 75 80
atg gcc ttc aac tac ctg tct ggc agc aag tcc att tct atg gct ggt 288
Met Ala Phe Asn Tyr Leu Ser Gly Ser Lys Ser Ile Ser Met Ala Gly
85 90 95
tgt gcc aca cca att ttc ttc tat aca tca ctg ctt ggc tct gag tgc 336
Cys Ala Thr Gln Ile Phe Phe Tyr Thr Ser Leu Leu Gly Ser Glu Cys
100 105 110
ttt ctt ttg gct gtt atg gct tat gac cgc tac act gcc att tgc cac 384
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Thr Ala Ile Cys His
115 120 125
cct cta aga tac acc aat ctc atg ago cct aaa att tgt gga ctt atg 432
Pro Leu Arg Tyr Thr Asn Leu Met Ser Pro Lys Ile Cys Gly Leu Met
130 135 140
act gcc ttt tcc tgg atc ctg gcc tct acg gat gga att att gat gtt 480
Thr Ala Phe Ser Trp Ile Leu Gly Ser Thr Asp Gly Ile Ile Asp Val
145 150 155 160
gta gca aca ttt tcc ttc tcc tac tgt ggg tct cgg gaa ata gcc cac 528
Val Ala Thr Phe Ser Phe Ser Tyr Cys Gly Ser Arg Glu Ile Ala His

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165          170          175
ttc ttc tgt gac ttc ccc tcc cta cta atc ctc tca tgc agt gac aca    576
Phe Phe Cys Asp Phe Pro Ser Leu Leu Ile Leu Ser Cys Ser Asp Thr
      180          185          190

tca ata ttt gaa aag att ctt ttc atc tgc tgt ata gta atg att gtt    624
Ser Ile Phe Glu Lys Ile Leu Phe Ile Cys Cys Ile Val Met Ile Val
      195          200          205

ttc cct gtt gca atc atc att got tcc tat gct cga gtt atc ctg gct    672
Phe Pro Val Ala Ile Ile Ile Ala Ser Tyr Ala Arg Val Ile Leu Ala
      210          215          220

gtc att cac atg gga tct gga gag ggt cgt cgc aaa gct ttt act act    720
Val Ile His Met Gly Ser Gly Glu Gly Arg Lys Ala Phe Thr Thr
      225          230          235          240

tgt tcc tct cac ctc ttg gtg gtg gga atg tac tac gga gca got ttg    768
Cys Ser Ser His Leu Leu Val Val Gly Met Tyr Tyr Gly Ala Ala Leu
      245          250          255

ttc atg tac ata cgg ccc aca tot gat cgc tcc cca aca cag gac aag    816
Phe Met Tyr Ile Arg Pro Thr Ser Asp Arg Ser Pro Thr Gln Asp Lys
      260          265          270

atg gtg tct gta ttc tac acc atc ctc act ccc atg ttg aat ccc ctc    864
Met Val Ser Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Leu
      275          280          285

atc tac agc ctc cgc aac aag gag gtg acc aga gca ttc atg aag atc    912
Ile Tyr Ser Leu Arg Asn Lys Glu Val Thr Arg Ala Phe Met Lys Ile
      290          295          300

tta gga aag ggc aag tct gga gag tga                                939
Leu Gly Lys Gly Lys Ser Gly Glu
      305          310

<210> 536
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<212> ZPT
<213> Homo Sapiens

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Met Ala Arg Glu Asn Ser Thr Phe Asn Ser Asp Phe Ile Leu Leu Gly
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20          25          30

Ala Ile Phe Ser Val Ala Phe Met Gly Asn Ser Val Met Val Leu Leu
35          40          45

Ile Tyr Leu Asp Thr Gln Leu His Thr Pro Met Tyr Leu Leu Leu Ser
50          55          60

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Gln Leu Ser Leu Met Asp Leu Met Leu Ile Cys Thr Thr Val Pro Lys
 65 70 75 80
 Met Ala Phe Asn Tyr Leu Ser Gly Ser Lys Ser Ile Ser Met Ala Gly
 85 90 95
 Cys Ala Thr Gln Ile Phe Phe Tyr Thr Ser Leu Leu Gly Ser Glu Cys
 100 105 110
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Thr Ala Ile Cys His
 115 120 125
 Pro Leu Arg Tyr Thr Asn Leu Met Ser Pro Lys Ile Cys Gly Leu Met
 130 135 140
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 Val Ala Thr Phe Ser Phe Ser Tyr Cys Gly Ser Arg Glu Ile Ala His
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 Ser Ile Phe Glu Lys Ile Leu Phe Ile Cys Cys Ile Val Met Ile Val
 195 200 205
 Phe Pro Val Ala Ile Ile Ile Ala Ser Tyr Ala Arg Val Ile Leu Ala
 210 215 220
 Val Ile His Met Gly Ser Gly Glu Gly Arg Arg Lys Ala Phe Thr Thr
 225 230 235 240
 Cys Ser Ser His Leu Leu Val Val Gly Met Tyr Tyr Gly Ala Ala Leu
 245 250 255
 Phe Met Tyr Ile Arg Pro Thr Ser Asp Arg Ser Pro Thr Gln Asp Lys
 260 265 270
 Met Val Ser Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Leu
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 Val Leu Thr Ser Leu Phe Ser Asn Ala Leu Met Ile Leu Leu Ile His
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 Ala Asp Tyr Leu Thr Gly Asn Lys Ala Ile Ser Arg Ala Gly Cys Gly
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225 230 235 240

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245 250 255

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Tyr Met Arg Pro Lys Ser His Arg Ser Thr Asn His Asp Lys Val Val
260 265 270

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Trp Asp His Arg Leu His Arg Pro Met Tyr Phe Leu Leu Ser Gln Leu
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Arg Tyr Pro Thr Leu Met Ser Trp Gln Leu Cys Leu Arg Met Thr Met
130 135 140

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180 185 190

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195 200 205

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210 215 220

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Tyr Met Arg Pro Lys Ser His Arg Ser Thr Asn His Asp Lys Val Val
260 265 270

Ser Ala Phe Tyr Thr Met Phe Thr Pro Leu Leu Asn Pro Leu Ile Tyr
275 280 285

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Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Thr Ala Ile Cys His
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Pro Leu Arg Tyr Thr Asn Leu Met Arg Pro Lys Ile Cys Gly Leu Met
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gta gcg aca ttt tcc ttc tcc tac tgt ggg tct cgg gaa ata gcc cac      528
Val Ala Thr Phe Ser Phe Ser Tyr Cys Gly Ser Arg Glu Ile Ala His
165    170    175
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 225 230 235 240

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 260 265 270

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 35 40 45

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 50 55 60

Gln Leu Ser Leu Met Asp Leu Met Leu Ile Cys Thr Thr Val Pro Lys
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Met Ala Phe Asn Tyr Leu Ser Gly Ser Lys Ser Ile Ser Met Ala Gly
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Cys Ala Thr Gln Ile Phe Phe Tyr Ile Ser Leu Leu Gly Ser Glu Cys
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 130 135 140
 Thr Ala Phe Ser Trp Ile Leu Gly Ser Thr Asp Gly Ile Ile Asp Ala
 145 150 155 160
 Val Ala Thr Phe Ser Phe Ser Tyr Cys Gly Ser Arg Glu Ile Ala His
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 180 185 190
 Ser Ile Phe Glu Glu Val Ile Phe Ile Cys Cys Ile Val Met Leu Val
 195 200 205
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 Val Ile His Met Gly Ser Gly Glu Gly Arg Arg Lys Ala Phe Thr Thr
 225 230 235 240
 Cys Ser Ser His Leu Met Val Val Gly Met Tyr Tyr Gly Ala Gly Leu
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 260 265 270
 Met Val Ser Val Phe Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Leu
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Val Leu Thr Ser Leu Phe Gly Asn Ser Leu Met Ile Leu Leu Ile His
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Trp Asp His Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln Leu
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65 70 75 80
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Ala Asp Tyr Leu Thr Gly Ser Lys Ala Ile Ser Arg Ala Gly Cys Gly
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Val Gln Ile Phe Phe Leu Pro Thr Leu Gly Gly Gly Gln Cys Phe Leu
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Arg Tyr Pro Thr Leu Met Ser Trp Gln Leu Cys Leu Arg Met Thr Met
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 225 230 235 240
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 Ser His Val Ala Val Val Gly Leu Phe Tyr Gly Ala Ala Ile Phe Thr
 245 250 255
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 Tyr Met Arg Pro Lys Ser His Arg Ser Thr Asn His Asp Lys Val Val
 260 265 270
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 275 280 285
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 290 295 300
 acg tgt gta aac ata aaa cac cag caa aat gag gcc cac agg tca aga 960
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Thr Leu Ser Phe Pro Tyr Cys Gly Ala His Glu Ile Asp His Phe Phe
 165 170 175

Cys Glu Thr Pro Val Leu Val Arg Leu Ala Cys Ala Asp Thr Ser Val
 180 185 190

Phe Glu Asn Ala Met Tyr Ile Cys Cys Val Leu Met Leu Leu Val Pro
 195 200 205

Phe Ser Leu Ile Leu Ser Ser Tyr Gly Leu Ile Leu Ala Ala Val Leu
 210 215 220

His Met Arg Ser Thr Glu Ala Arg Lys Lys Ala Phe Ala Thr Cys Ser
 225 230 235 240

Ser His Val Ala Val Val Gly Leu Phe Tyr Gly Ala Ala Ile Phe Thr
 245 250 255

Tyr Met Arg Pro Lys Ser His Arg Ser Thr Asn His Asp Lys Val Val
 260 265 270

Ser Ala Phe Tyr Thr Met Phe Thr Pro Leu Leu Asn Pro Leu Ile Tyr
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gga atc tgt gtg gtc aca gtg gtg ggc aac ttg ggc atg atc aca ctg      144
Gly Ile Cys Val Val Thr Val Val Gly Asn Leu Gly Met Ile Thr Leu
35     40     45
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65     70     75     80
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85     90     95
tgc atg gct cag ctc tat tta ttc agt att ttt gct att gca gag tgt      336
Cys Met Ala Gln Leu Tyr Leu Phe Ser Ile Phe Ala Ile Ala Glu Cys
100    105    110
cac atg ttg gct gca atg gcg tat gac tgt tat gtt gcc atc tgc agc      384
His Met Leu Ala Ala Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Ser
115    120    125
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Ser Phe Met Leu Arg Leu Phe Leu Cys Lys Thr Asn Val Ile Asn His
165    170    175
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180    185    190
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195    200    205
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cys ser ser his ile leu ala val ala val phe phe gly ser ala ala
245          250          255
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phe met tyr leu gln pro ser ser val ser ser met asp gln arg lys
260          265          270
gtg tgg tct gtg ttt tat act act att gtg ccc atg ctg aac ccc ctg    864
val ser ser val phe tyr thr thr ile val pro met leu asn pro leu
275          280          285
atc tac agc ctg agg aat aaa gat gtc aaa ctt gcc gtg aag aaa att    912
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Gly Ile Cys Val Val Thr Val Val Gly Asn Leu Gly Met Ile Thr Leu
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50          55          60
Ser Leu Ser Phe Ile Asp Phe Cys His Ser Thr Val Ile Thr Pro Lys
65          70          75          80
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Cys Met Ala Gln Leu Tyr Leu Phe Ser Ile Phe Ala Ile Ala Glu Cys
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Pro Leu Leu Tyr Asn Val Ile Met Ser Tyr His Arg Cys Phe Trp Leu
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 145 150 155 160

Ser Phe Met Leu Arg Leu Phe Leu Cys Lys Thr Asn Val Ile Asn His
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Tyr Phe Cys Asp Leu Phe Pro Leu Leu Gly Leu Ser Cys Ser Ser Thr
 180 185 190

Tyr Ile Asn Glu Leu Leu Val Leu Val Leu Ser Ala Phe Asn Ile Leu
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Cys Ser Ser His Ile Leu Ala Val Ala Val Phe Phe Gly Ser Ala Ala
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 260 265 270

Val Ser Ser Val Phe Tyr Thr Thr Ile Val Pro Met Leu Asn Pro Leu
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PCT/BE01/00162

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【国際公開パンフレット（コレクトバージョン）】

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International Bureau(43) International Publication Date
28 March 2002 (28.03.2002)

PCT

(10) International Publication Number
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C12N 15/00
- (21) International Application Number: PCT/BE01/00162
- (22) International Filing Date:
21 September 2001 (21.09.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
DGK70211.0 22 September 2000 (22.09.2000) EP
- (71) Applicant (for all designated States except US): CHEM-COM S.A. [BE/BE]; Route de Lennik, 802, B-1070 Brussels (BE).
- (72) Inventor: and
(75) Inventor/Applicant (for US only): VEITHEN, Alex [BE/BE]; Chaussée de Mons, 197, B-1400 Nivelles (BE).
- (74) Agents: VAN MALDEREN, Eric et al.; Office Van Malderen, Place Reine Fabiola, 6/1, B-1063 Brussels (BE).
- (81) Designated States (national): AR, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LA, LK, LR, LS, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NI, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), European patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
with international search report
with sequence listing part of description published separately in electronic form and available upon request from the International Bureau
- (58) Date of publication of the international search report:
9 January 2003
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 02/024726 A3

(54) Title: OLFACTORY AND PHEROMONE G-PROTEIN COUPLED RECEPTORS

(57) Abstract: The present invention is related to an olfactory or pheromone G-protein coupled receptor having an amino acid sequence as set forth in the sequence SEQ ID NO. 2.

【国際調査報告】

INTERNATIONAL SEARCH REPORT		Application No. PCT/BE 01/00162
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/72 C12N15/00		
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) IPC 7 C07K C12N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Exclusion data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, PAJ, EPO-Internal, EMBL		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with category, where appropriate, of the relevant passages	Relevant to claim No.
X, P	WO 01 57085 A (INCYTE GENOMICS INC.; YUE HENRY (US); AU YOUNG JANICE (US); BAUGHN) 9 August 2001 (2001-08-09) abstract Sequence Id.No.13	1-3, 5-7, 9
X, P	EP 1 096 008 A (PFIZER LTD.; PFIZER (US)) 2 May 2001 (2001-05-02) abstract page 36 claim 22	1-3, 5-7, 9
-/-		
☒ Further documents are listed in the continuation of box C. ☒ Patent family members are listed in annex.		
* Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *B* earlier document but published on or after the international filing date *C* document which may throw doubts on priority claims or which is cited to establish the publication date of another document or other special reasons (see Appendix) *D* document referring to an oral disclosure, use, exhibition or other means *E* document published prior to the international filing date but later than the priority date claimed *F* later document published after the international filing date or priority date and (a) a conflict with the application submitted to understand the principle or theory underlying the invention *G* 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 *H* 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 *I* document is member of the same patent family		
Date of the actual completion of the international search 23 July 2002		Date of making of the international search report 12/08/2002
Name and mailing address of the ISA European Patent Office, P.O. Box 6016 Patentamt 2 M - 2200 S.V. Papeye Tel: (+31-70) 340-2040, Tx: 31 05 490-44, Fax: (+31-70) 340-3016		Authorized officer: Panzica, G

Form PCT/ISA/210 (second sheet) 1 July 1992

INTERNATIONAL SEARCH REPORT		Int. Application No. PCT/BE 01/00162
C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	DATABASE EMBL 'Online! EMBL, Heidelberg, DE; 1 June 2001 (2001-06-01) WANG Y G, GONG L: "Cloning and characterization of FKSG46, a novel gene located on human chromosome 16" retrieved from TREMBL Database accession no. Q9BXE9 XP002207010 abstract -----	1-3, 5
A	WO 00 06593 A (LINDEMEIER JUERGEN ;ADLER JON ELLIOTT (US); UNIV CALIFORNIA (US);) 10 February 2000 (2000-02-10) abstract -----	1-3, 5-7, 9
A	WO 94 05695 A (UNIV NEW YORK) 17 March 1994 (1994-03-17) abstract -----	1-3, 5, 7, 9

Form PCT/ISA/210 (publication of search report) (July 1992)

International Application No. PCT/BE 01 00162

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-3 5-7, 9 and dependent ones, relate to an extremely large number of possible compounds, namely all the possible sequences sharing a percentage of identity up to 95% with the claimed sequences. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only one given sequence for the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compound as defined by Seq.Id.No. 1 and 2 (respectively DNA and amino acid sequences).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/BE 01/00162

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
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:
see FURTHER INFORMATION sheet PCT/ISA/210
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 II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

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

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
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.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

 Inv. Application No.
 PCT/BE 01/00162

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0157085 A	09-08-2001	AU 3476601 A WO 0157085 A2	14-08-2001 09-08-2001
EP 1096008 A	02-05-2001	EP 1096008 A2 JP 2001245673 A	02-05-2001 11-09-2001
WO 0006593 A	10-02-2000	AU 5324199 A BR 9912437 A CN 1318068 T EP 1100811 A1 NO 20010320 A WO 0006593 A1 US 6383778 B1	21-02-2000 25-09-2001 17-10-2001 23-05-2001 28-03-2001 10-02-2000 07-05-2002
WO 9405695 A	17-03-1994	AU 4855393 A WO 9405695 A1 US 5508384 A	29-03-1994 17-03-1994 16-04-1996

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(51)Int.Cl. ⁷	F I	テーマコード (参考)
A 6 1 P 5/24	A 6 1 P 5/24	4 C 0 8 3
A 6 1 P 15/08	A 6 1 P 15/08	4 C 0 8 4
A 6 1 P 25/00	A 6 1 P 25/00	4 H 0 4 5
A 6 1 P 25/18	A 6 1 P 25/18	
A 6 1 P 25/22	A 6 1 P 25/22	
A 6 1 P 25/24	A 6 1 P 25/24	
A 6 1 P 43/00	A 6 1 P 43/00	1 0 5
C 0 7 K 14/705	C 0 7 K 14/705	
C 1 2 N 1/15	C 1 2 N 1/15	
C 1 2 N 1/19	C 1 2 N 1/19	
C 1 2 N 1/21	C 1 2 N 1/21	
C 1 2 N 5/10	C 1 2 Q 1/02	
C 1 2 Q 1/02	G 0 1 N 33/15	Z
G 0 1 N 33/15	G 0 1 N 33/50	Z
G 0 1 N 33/50	C 1 2 N 5/00	A

(81)指定国 AP(GH,GM,KE,LS,MW,MZ,SD,SL,SZ,TZ,UG,ZW),EA(AM,AZ,BY,KG,KZ,MD,RU,TJ,TM),EP(AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE,TR),OA(BF,BJ,CF,CG,CI,CM,GA,GN,GQ,GW,ML,MR,NE,SN,TD,TG),AE,AG,AL,AM,AT,AU,AZ,BA,BB,BG,BR,BY,BZ,CA,CH,CN,CO,CR,CU,CZ,DE,DK,DM,DZ,EC,EE,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KP,KR,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,MZ,NO,NZ,PH,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,US,UZ,VN,YU,ZA,ZW

Fターム(参考) 4B047 LB08 LG50 LG56 LP01 LP20
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 4B065 AA93Y AB01 AC14 BA02 CA24 CA46
 4C083 AD411 BB60 EE03 FF01
 4C084 AA17 NA14 ZA05 ZA12 ZA18 ZA81 ZB21 ZC02 ZC03
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 FA74