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**<110> MEDIMMUNE LIMITED**

&lt;120&gt; ANTI-PAR2 ANTIBODIES AND USES THEREOF

<130> 1848081-0002-093-W01

**<140>**

**<141>**

**<150> 62/637,766**

<151> 2018-03-02

**<150> 62/472,462**

<151> 2017-03-16

**<160> 841**

&lt;170&gt; PatentIn version 3.5

**$\langle 210 \rangle$  1**

**<211> 351**

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<213> *Homo sapiens*

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*ccaaggcaagg gcctggaagtg ggtgtccacc atcaqctaca gcgggtcgct gatcaqctac* 180

*gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240

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*aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a* 351

**$\langle 210 \rangle$  2**

**<211> 117**

**<212> PRT**

**<213> *Homo sapiens***

**<400> 2**

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*

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*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*

25

30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
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<400> 3  
 Ser Tyr Ala Met Asn  
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<210> 4  
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 <213> Homo sapiens

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 1 5 10 15

Gly

<210> 5  
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&lt;400&gt; 5

Ile Asn Asn Asp Pro Met Asp Val

1 5

&lt;210&gt; 6

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 6

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acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggccatg 240

gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 7

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln

1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val

20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr

35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser

50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met

65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr

85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

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 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
 cacgacagcg tgcattcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
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Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
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 Ser Tyr Ala Met Asn  
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<210> 14  
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 <212> PRT

<213> *Homo sapiens*

<400> 14

Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val His  
1 5 10 15

His

<210> 15

<211> 8

<212> PRT

<213> *Homo sapiens*

<400> 15

Ile His His Asp Pro Met Asp Val  
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<210> 16

<211> 333

<212> DNA

<213> *Homo sapiens*

<400> 16

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| acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc  | 120 |
| cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg  | 180 |
| ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg  | 240 |
| gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac  | 300 |
| gtgttcggcg gagggaccaa gttaaccgtc cta                               | 333 |

<210> 17

<211> 111

<212> PRT

<213> *Homo sapiens*

<400> 17

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
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Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 18  
 <211> 11  
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<400> 18  
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 1 5 10

<210> 19  
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<400> 19  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 20  
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 1 5 10

<210> 21  
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&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 21

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*ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatccactac* 180  
*gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac* 300  
*aacgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a* 351

&lt;210&gt; 22

&lt;211&gt; 117

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 22

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
 1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
 20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
 35 40 45

*Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile His Tyr Ala Asp Ser Val*  
 50 55 60

*Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
 65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
 85 90 95

*Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
 100 105 110

*Val Thr Val Ser Ser*  
 115

<210> 23  
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 <212> PRT  
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<400> 23  
 Ser Tyr Ala Met Asn  
 1 5

<210> 24  
 <211> 17  
 <212> PRT  
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<400> 24  
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*Gly*

<210> 25  
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<400> 25  
 Ile Asn Asn Asp Pro Met Asp Val  
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<210> 26  
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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggccatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

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Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 28  
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<400> 28  
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<210> 29  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 29  
 Asp Asp Ser Asn Arg Pro Ser

1 5

<210> 30  
 <211> 14  
 <212> PRT  
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<400> 30  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
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<210> 31  
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 <212> DNA  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 caccacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a 351

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<400> 32  
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 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

12

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 33  
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<400> 33  
Ser Tyr Ala Met Asn  
1 5

<210> 34  
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<400> 34  
Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 35  
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<212> PRT  
<213> Homo sapiens

<400> 35  
Ile Asn His Asp Pro Met Asp Val  
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<210> 36  
<211> 333

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 36

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cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg      180
ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggccatg      240
gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac      300
gtgttcggcg gagggaccaa gttaaccgtc cta                                     333

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&lt;210&gt; 37

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 37

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Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
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Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val
          20          25          30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
          35          40          45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
          50          55          60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65          70          75          80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr
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Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
          100         105         110

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&lt;210&gt; 38

&lt;211&gt; 11

<212> PRT

<213> *Homo sapiens*

<400> 38

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 39

<211> 7

<212> PRT

<213> *Homo sapiens*

<400> 39

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 40

<211> 14

<212> PRT

<213> *Homo sapiens*

<400> 40

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
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<210> 41

<211> 351

<212> DNA

<213> *Homo sapiens*

<400> 41

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ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180

gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300

aacgacccta tggatgtgtg gggccagggc accctgggtga cagtgagctc a 351

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<212> PRT

<213> *Homo sapiens*

<400> 42

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

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Ser Tyr Ala Met Asn  
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<210> 44  
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1 5 10 15

Gly

<210> 45  
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 1 5

<210> 46  
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 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggccatg 240  
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 gtgttcggcg gagggaccaa gttaaccgtc cta 333

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Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

17

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
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Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr His  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 48  
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Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

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<400> 49  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 50  
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<210> 51  
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18

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gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
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<210> 53  
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<400> 53

Ser Tyr Ala Met Asn  
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<210> 54  
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<212> PRT  
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<400> 54  
Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 55  
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<212> PRT  
<213> Homo sapiens

<400> 55  
Ile His His Asp Pro Met Asp Val  
1 5

<210> 56  
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<212> DNA  
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cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 57  
<211> 111  
<212> PRT  
<213> Homo sapiens

<400> 57

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 58  
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 <212> PRT  
 <213> Homo sapiens

<400> 58  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 59  
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 <212> PRT  
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<400> 59  
 Asp Asp Ser Asn Arg Pro Ser  
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<210> 60  
 <211> 14  
 <212> PRT  
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&lt;400&gt; 60

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

&lt;210&gt; 61

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 caccacccta tggatcactg gggccagggc accctggtga cagtgaagctc a 351

&lt;210&gt; 62

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile His His Asp Pro Met Asp His Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 63  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 63  
 Ser Tyr Ala Met Asn  
 1 5

<210> 64  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 64  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 65  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 65  
 Ile His His Asp Pro Met Asp His  
 1 5

<210> 66  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
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23

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 67  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 67  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 68  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 68  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 69  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 69  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 70  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 70  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 71  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 71  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 72  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 72  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45 25

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 73  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 73  
 Ser Tyr Ala Met Asn  
 1 5

<210> 74  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 74  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 75  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 75

Ile Asn Asn Asp Pro Met Asp Val

1 5

&lt;210&gt; 76

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 76

agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

gacgaggccg actactactg ccacacctgg caccacaacc cgcacacggg ggagaccaac 300

cacttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 77

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 77

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln

1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val

20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr

35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser

50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met

65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp His His Asn Pro His Thr

85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 78  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 78  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 79  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 79  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 80  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 80  
 His Thr Trp His His Asn Pro His Thr Gly Glu Thr Asn His  
 1 5 10

<210> 81  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 81  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 82  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 82  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 83  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 83  
 Ser Tyr Ala Met Asn  
 1 5

<210> 84  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

&lt;400&gt; 84

Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

&lt;210&gt; 85

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

Ile Asn Asn Asp Pro Met Asp Val  
 1 5

&lt;210&gt; 86

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 86

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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccaccactgg cacgggaacc accacacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 87

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 87

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His His Trp His Gly Asn His His Thr  
 85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 88  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 88  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 89  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 89  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 90  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 90  
 His His Trp His Gly Asn His His Thr Gly Glu Thr Asn His  
 1 5 10

<210> 91  
 <211> 351  
 <212> DNA

<213> *Homo sapiens*

<400> 91

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 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a 351

<210> 92

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 92

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 93  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 93  
 Ser Tyr Ala Met Asn  
 1 5

<210> 94  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 94  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 95  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 95  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 96  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 96  
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 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg caccaccacc cgacgcatgg ggagcacaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 97  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 97  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp His His His Pro Thr His  
 85 90 95

Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 98  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 98  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 99  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 99  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 100  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 100  
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 1 5 10

<210> 101  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 101  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 102  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 102  
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 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 103  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 103  
 Ser Tyr Ala Met Asn  
 1 5

<210> 104  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 104  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 105  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 105  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 106  
 <211> 333  
 <212> DNA

<213> *Homo sapiens*

<400> 106

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ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg      240
gacgaggccg actactactg ccagacctgg gacgggcacc acacgcatgg ggagcaccac      300
gtgttcggcg gagggaccaa gttaaccgtc cta                                     333

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<210> 107

<211> 111

<212> PRT

<213> *Homo sapiens*

<400> 107

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Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
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Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val
          20           25           30

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Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
          35           40           45

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Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
          50           55           60

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Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65           70           75           80

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Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly His His Thr His
          85           90           95

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Gly Glu His His Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
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<210> 108

<211> 11

<212> PRT

<213> *Homo sapiens*

<400> 108

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 109

<211> 7

<212> PRT

<213> *Homo sapiens*

<400> 109

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 110

<211> 14

<212> PRT

<213> *Homo sapiens*

<400> 110

Gln Thr Trp Asp Gly His His Thr His Gly Glu His His Val  
1 5 10

<210> 111

<211> 351

<212> DNA

<213> *Homo sapiens*

<400> 111

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ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 112

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 112

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



<210> 115  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 115  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 116  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 116  
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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gaccacaacc accacacggg gcacaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 117  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 117  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

40  
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp His Asn His His Thr  
 85 90 95

Gly His Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 118  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 118  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 119  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 119  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 120  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 120  
 Gln Thr Trp Asp His Asn His His Thr Gly His Thr Asn Val  
 1 5 10

<210> 121  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 121  
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 tcctgcgccg cctccggatt caccttcagc agctacgcc tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180

*gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac* 300  
*aacgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a* 351

<210> 122  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 122  
*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
 1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
 20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
 35 40 45

*Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val*  
 50 55 60

*Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
 65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
 85 90 95

*Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
 100 105 110

*Val Thr Val Ser Ser*  
 115

<210> 123  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 123  
*Ser Tyr Ala Met Asn*

1

5

&lt;210&gt; 124

&lt;211&gt; 17

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 124

*Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys*  
 1 5 10 15

*Gly*

&lt;210&gt; 125

&lt;211&gt; 8

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 125

*Ile Asn Asn Asp Pro Met Asp Val*  
 1 5

&lt;210&gt; 126

&lt;211&gt; 333

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 126

*agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc* 60

*acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc* 120

*cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg* 180

*ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg* 240

*gacgaggccg actactactg ccacacctgg caccaccacc accacacggg ggagcacaac* 300

*cacttcggcg gagggaccaa gttaaccgtc cta* 333

&lt;210&gt; 127

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 127

*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*



His Thr Trp His His His His His Thr Gly Glu His Asn His  
 1 5 10

<210> 131

<211> 351

<212> DNA

<213> Homo sapiens

<400> 131

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60

tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120

ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180

gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300

aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 132

<211> 117

<212> PRT

<213> Homo sapiens

<400> 132

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110 45

Val Thr Val Ser Ser  
115

<210> 133  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 133  
Ser Tyr Ala Met Asn  
1 5

<210> 134  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 134  
Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 135  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 135  
Ile Asn Asn Asp Pro Met Asp Val  
1 5

<210> 136  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 136  
agtatcagagc tgacccagcc cccacagcgtg agcgtgtccc caggccagac cgccagcatc 60  
acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

*ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg* 240  
*gacgaggccg actactactg ccagcactgg cacgggcacc cgcaccatgg ggagcacaac* 300  
*gtgttcggcg gagggaccaa gttaaccgtc cta* 333

<210> 137  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 137  
*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
 1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
 20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
 35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
 50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
 65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln His Trp His Gly His Pro His His*  
 85 90 95

*Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
 100 105 110

<210> 138  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 138  
*Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln*  
 1 5 10

<210> 139

<211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 139  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 140  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 140  
 Gln His Trp His Gly His Pro His His Gly Glu His Asn Val  
 1 5 10

<210> 141  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 141  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 142  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 142  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35 40 48 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 143  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 143  
Ser Tyr Ala Met Asn  
1 5

<210> 144  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 144  
Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 145  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 145

Ile Asn Asn Asp Pro Met Asp Val  
1 5

<210> 146  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 146  
agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
gacgaggccg actactactg ccagcactgg gacgggaacc accaccatgg ggagaccaac 300  
cacttcggcg gagggaccaa gttaaccgtc cta 333

<210> 147  
<211> 111  
<212> PRT  
<213> Homo sapiens

<400> 147  
Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln His Trp Asp Gly Asn His His His  
85 90 95

50

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 148  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 148  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 149  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 149  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 150  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 150  
Gln His Trp Asp Gly Asn His His His Gly Glu Thr Asn His  
1 5 10

<210> 151  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 151  
gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 152  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 152  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 153  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 153  
 Ser Tyr Ala Met Asn  
 1 5

<210> 154  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

&lt;400&gt; 154

Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

&lt;210&gt; 155

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 155

Ile Asn Asn Asp Pro Met Asp Val  
 1 5

&lt;210&gt; 156

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 156

agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg gaccaccacc acacgacggg ggagcacaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 157

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 157

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr

35 40 53 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp Asp His His His Thr Thr  
85 90 95

Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 158  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 158  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 159  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 159  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 160  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 160  
His Thr Trp Asp His His His Thr Thr Gly Glu His Asn Val  
1 5 10

<210> 161  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 161  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 162  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 162  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 163  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 163  
 Ser Tyr Ala Met Asn  
 1 5

<210> 164  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 164  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

*Gly*

<210> 165  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 165  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 166  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 166  
 agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccaccactgg cacgggcacc acacgacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gttaaccgtc cta 333

<210> 167  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 167  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His His Trp His Gly His His Thr Thr  
 85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 168  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 168  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 169  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 169  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 170  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 170  
 His His Trp His Gly His His Thr Thr Gly Glu Thr Asn His  
 1 5 10

<210> 171  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 171  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 172  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 172  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65 70 58 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu

100 105 110

Val Thr Val Ser Ser

115

<400> 176  
 agtatcgagc tgaccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccaccactgg cacgggcacc cgcacacggg ggagcacaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 177  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 177  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His His Trp His Gly His Pro His Thr  
 85 90 95

Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 178  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 178

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

&lt;210&gt; 179

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 179

Asp Asp Ser Asn Arg Pro Ser  
 1 5

&lt;210&gt; 180

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 180

His His Trp His Gly His Pro His Thr Gly Glu His Asn Val  
 1 5 10

&lt;210&gt; 181

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 181

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

&lt;210&gt; 182

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 182

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 183  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 183  
 Ser Tyr Ala Met Asn  
 1 5

<210> 184  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 184  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 185  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 185  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 186  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 186  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagcactgg gacgggcacc acacgacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gttaaccgtc cta 333

<210> 187  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 187  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met

**65                      70                      63  
75                      80**

*Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
 100 105 110

<400> 188  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

**<400> 189**  
**Asp Asp Ser Asn Arg Pro Ser**  
**1 5**

<400> 190  
Gln His Trp Asp Gly His His Thr Thr Gly Glu Thr Asn His  
1 5 10

**<400> 191**

|                                                                                  |            |
|----------------------------------------------------------------------------------|------------|
| <b><i>gagggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg</i></b> | <b>60</b>  |
| <b><i>tcctgcgccg cctccggatt caccttcagc agctacgcc tgaactgggt gcggcaggcc</i></b>   | <b>120</b> |
| <b><i>ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac</i></b>  | <b>180</b> |

64

*gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac* 300  
*aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a* 351

<210> 192  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 192  
*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
 1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
 20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
 35 40 45

*Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val*  
 50 55 60

*Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
 65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
 85 90 95

*Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
 100 105 110

*Val Thr Val Ser Ser*  
 115

<210> 193  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 193  
*Ser Tyr Ala Met Asn*  
 1 5

<210> 194  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 194  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

*Gly*

<210> 195  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 195  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 196  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 196  
 agtatcgagc tgacccagcc cccacgctg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggcacc accacacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gttaaccgtc cta 333

<210> 197  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 197  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly His His His Thr  
 85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 198  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 198  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 199  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 200  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 200  
 Gln Thr Trp Asp Gly His His His Thr Gly Glu Thr Asn His

| 1          | 5            | 10         | 67                                   |
|------------|--------------|------------|--------------------------------------|
| <210>      | 201          |            |                                      |
| <211>      | 351          |            |                                      |
| <212>      | DNA          |            |                                      |
| <213>      | Homo sapiens |            |                                      |
| <400>      | 201          |            |                                      |
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| tcctgcgccg | cctccggatt   | caccttcagc | agctacgcca tgaactgggt gcggcaggcc 120 |
| ccaggcaagg | gcctggagtg   | ggtgtccacc | atcagccaca gcgggcacca catcagccac 180 |
| cacgacagcc | atcatggcag   | gttcaccatc | agcagggaca acagcaagaa caccctgtac 240 |
| ctgcagatga | acagcctgag   | ggccgaggac | accgccgtgt actactgcgc ccgcatcaac 300 |
| aacgacccta | tggatgtgtg   | gggccagggc | accctggtga cagtgaagctc a 351         |

100

105

110

Val Thr Val Ser Ser  
115

<210> 203  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 203  
Ser Tyr Ala Met Asn  
1 5

<210> 204  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 204  
Thr Ile Ser His Ser Gly His His Ile Ser His His Asp Ser His His  
1 5 10 15

Gly

<210> 205  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 205  
Ile Asn Asn Asp Pro Met Asp Val  
1 5

<210> 206  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 206  
agtatcgagc tgaccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
cagtcctcccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

69

*ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg* 240  
*gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac* 300  
*gtgttcggcg gagggaccaa gttaaccgtc cta* 333

<210> 207  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 207  
*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
 1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
 20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
 35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
 50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
 65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr*  
 85 90 95

*Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
 100 105 110

<210> 208  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 208  
*Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln*  
 1 5 10

<210> 209  
 <211> 7

<212> PRT  
 <213> Homo sapiens

<400> 209  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 210  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 210  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 211  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 211  
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 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagccaca gccactcgct gatcagctac 180  
 gcccacagcg tgcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 212  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 212  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser His Ser His Ser Leu Ile Ser Tyr Ala His Ser Val  
 50 55 60

His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 213  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 213  
 Ser Tyr Ala Met Asn  
 1 5

<210> 214  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Thr Ile Ser His Ser His Ser Leu Ile Ser Tyr Ala His Ser Val His  
 1 5 10 15

Gly

<210> 215  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 215  
 Ile Asn Asn Asp Pro Met Asp Val

1

5

&lt;210&gt; 216

&lt;211&gt; 333

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 216

*agtatcgagc tgacccagcc ccccagcgtg agcgtgtccc caggccagac cgccagcatc* 60

*acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc* 120

*cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg* 180

*ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg* 240

*gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac* 300

*gtgttcggcg gagggaccaa gttaaccgtc cta* 333

&lt;210&gt; 217

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 217

*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr*  
85 90 95

*Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*

100 105 73 110  
 <210> 218  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*  
 <400> 218  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10  
 <210> 219  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*  
 <400> 219  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5  
 <210> 220  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*  
 <400> 220  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10  
 <210> 221  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*  
 <400> 221  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atccaccaca gcgggcacct gcacagccac 180  
 gccgaccacg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351  
 <210> 222

<211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 222  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile His His Ser Gly His Leu His Ser His Ala Asp His Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 223  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 223  
 Ser Tyr Ala Met Asn  
 1 5

<210> 224  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 224

75

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | His | His | Ser | Gly | His | Leu | His | Ser | His | Ala | Asp | His | Val | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Gly

<210> 225  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 225  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 226  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 226

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc | 60  |
| acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc  | 120 |
| cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg  | 180 |
| ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg  | 240 |
| gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac  | 300 |
| gtgttcggcg gagggaccaa gttaaccgtc cta                               | 333 |

<210> 227  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 227

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ile | Glu | Leu | Thr | Gln | Pro | Pro | Ser | Val | Ser | Val | Ser | Pro | Gly | Gln |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ser | Ile | Thr | Cys | Ser | Gly | Asp | Asn | Leu | Gly | Lys | Lys | Tyr | Val |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln | Ser | Pro | Val | Leu | Val | Ile | Tyr |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 228  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 228  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 229  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 229  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 230  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 230  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 231  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 231

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcc tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagccaca gcgggcacct gatccaccac 180  
 gccgacagcc ataagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a 351

&lt;210&gt; 232

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 232

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser His Ser Gly His Leu Ile His His Ala Asp Ser His  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

&lt;210&gt; 233

<211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 233  
 Ser Tyr Ala Met Asn  
 1 5

<210> 234  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 234  
 Thr Ile Ser His Ser Gly His Leu Ile His His Ala Asp Ser His Lys  
 1 5 10 15

*Gly*

<210> 235  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 235  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 236  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 236  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 237

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 237

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

&lt;210&gt; 238

&lt;211&gt; 11

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 238

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

&lt;210&gt; 239

&lt;211&gt; 7

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 239

Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 240  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 240  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 241  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 241  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
 caccacagcc ataagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 242  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 242  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His His Ser His  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                             85                            90                            95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
                             100                            105                            110

Val Thr Val Ser Ser  
                             115

<210> 243  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 243  
 Ser Tyr Ala Met Asn  
 1                            5

<210> 244  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 244  
 Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His His Ser His Lys  
 1                            5                            10                            15

Gly

<210> 245  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 245  
 Ile Asn Asn Asp Pro Met Asp Val  
 1                            5

<210> 246  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 246

agtatcgagc tgacccagcc cccacagctg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 247

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 247

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

&lt;210&gt; 248

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 248

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

&lt;210&gt; 249

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 249

Asp Asp Ser Asn Arg Pro Ser  
 1 5

&lt;210&gt; 250

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 250

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

&lt;210&gt; 251

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
 gccgaccacc ataagcacag gtaccaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

&lt;210&gt; 252

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 252

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr Ala Asp His His  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 253  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 253  
 Ser Tyr Ala Met Asn  
 1 5

<210> 254  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 254  
 Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr Ala Asp His His Lys  
 1 5 10 15

His

<210> 255  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 255  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 256  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 256  
 agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 257  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 257  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 258  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 258  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 259  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 259  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 260  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 260  
Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 261  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 261  
gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggcacct gatccactac 180  
gccgaccacc atcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac* 300

*aacgacccta tggatgtgtg gggccagggc accctggtga cagtga gctc a* 351

<210> 262

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 262

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
35 40 45

*Ser Thr Ile Ser Tyr Ser Gly His Leu Ile His Tyr Ala Asp His His*  
50 55 60

*His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
85 90 95

*Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
100 105 110

*Val Thr Val Ser Ser*  
115

<210> 263

<211> 5

<212> PRT

<213> *Homo sapiens*

<400> 263

*Ser Tyr Ala Met Asn*  
1 5

<210> 264  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 264  
 Thr Ile Ser Tyr Ser Gly His Leu Ile His Tyr Ala Asp His His His  
 1 5 10 15

*Gly*

<210> 265  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 265  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 266  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 266  
 agtatcgagc tgacccagcc cccacagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 267  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 267  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 268

<211> 11

<212> PRT

<213> Homo sapiens

<400> 268

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 269

<211> 7

<212> PRT

<213> Homo sapiens

<400> 269

Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 270

<211> 14

<212> PRT

<213> Homo sapiens

<400> 270

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 271  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 271  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagccac 180  
 gccgaccacg tgcattggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 272  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 272  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser His Ala Asp His Val  
 50 55 60

His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
115

<210> 273  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 273  
Ser Tyr Ala Met Asn  
1 5

<210> 274  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 274  
Thr Ile Ser Tyr His Gly Ser His Ile Ser His Ala Asp His Val His  
1 5 10 15

Gly

<210> 275  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 275  
Ile Asn Asn Asp Pro Met Asp Val  
1 5

<210> 276  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 276  
agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

*gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac* 300  
*gtgttcggcg gagggaccaa gttaaccgtc cta* 333

<210> 277  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 277  
*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
 1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
 20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
 35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
 50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
 65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr*  
 85 90 95

*Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
 100 105 110

<210> 278  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 278  
*Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln*  
 1 5 10

<210> 279  
 <211> 7  
 <212> PRT

<213> *Homo sapiens*

<400> 279

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 280

<211> 14

<212> PRT

<213> *Homo sapiens*

<400> 280

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 281

<211> 351

<212> DNA

<213> *Homo sapiens*

<400> 281

|                                                                           |     |
|---------------------------------------------------------------------------|-----|
| <i>gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg</i>  | 60  |
| <i>tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc</i> | 120 |
| <i>ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagccac</i>  | 180 |
| <i>gccgaccacg tgaagcacag gtccaccatc agcagggaca acagcaagaa caccctgtac</i>  | 240 |
| <i>ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac</i>  | 300 |
| <i>aacgacccta tggatgtgtg gggccagggc accctgggtga cagtgaagctc a</i>         | 351 |

<210> 282

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 282

|                                                                        |  |
|------------------------------------------------------------------------|--|
| <i>Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly</i> |  |
| 1 5 10 15                                                              |  |

|                                                                        |  |
|------------------------------------------------------------------------|--|
| <i>Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr</i> |  |
| 20 25 30                                                               |  |

|                                                                        |  |
|------------------------------------------------------------------------|--|
| <i>Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val</i> |  |
| 35 40 45                                                               |  |

Ser Thr Ile Ser Tyr His Gly His His Ile Ser His Ala Asp His Val  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 283  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 283  
 Ser Tyr Ala Met Asn  
 1 5

<210> 284  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 284  
 Thr Ile Ser Tyr His Gly His His Ile Ser His Ala Asp His Val Lys  
 1 5 10 15

His

<210> 285  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 285  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 286  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 286  
 agtatacgagc tgacccagcc cccacagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 287  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 287  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 288  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 288  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 289  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 289  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 290  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 290  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 291  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 291  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagccaca gcgggcacct gatccaccac 180  
 caccacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 292  
 <211> 117

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 292

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser His Ser Gly His Leu Ile His His His His Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

&lt;210&gt; 293

&lt;211&gt; 5

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 293

Ser Tyr Ala Met Asn  
 1 5

&lt;210&gt; 294

&lt;211&gt; 17

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 294

Thr Ile Ser His Ser Gly His Leu Ile His His His His Ser Val Lys

1 5 10 15

*Gly*

<210> 295  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 295  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 296  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 296  
 agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 297  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 297  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 298

<211> 11

<212> PRT

<213> Homo sapiens

<400> 298

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 299

<211> 7

<212> PRT

<213> Homo sapiens

<400> 299

Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 300

<211> 14

<212> PRT

<213> Homo sapiens

<400> 300

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 301

<211> 351

<212> DNA

<213> Homo sapiens

<400> 301

|                   |                   |                   |                   |                    |                   |     |
|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-----|
| 100               |                   |                   |                   |                    |                   |     |
| <i>gaggtgcagc</i> | <i>tgctggagag</i> | <i>cggcggaggg</i> | <i>ctggtgcagc</i> | <i>caggcggcag</i>  | <i>cctgaggctg</i> | 60  |
| <i>tcctgcgccg</i> | <i>cctccggatt</i> | <i>caccttcagc</i> | <i>agctacgcca</i> | <i>tgaactgggt</i>  | <i>gcggcaggcc</i> | 120 |
| <i>ccaggcaagg</i> | <i>gcctggagtg</i> | <i>ggtgtccacc</i> | <i>atcagctacc</i> | <i>acgggtcgca</i>  | <i>catcagctac</i> | 180 |
| <i>cacgacagcc</i> | <i>atcatggcag</i> | <i>gttcaccatc</i> | <i>agcagggaca</i> | <i>acagcaagaa</i>  | <i>caccctgtac</i> | 240 |
| <i>ctgcagatga</i> | <i>acagcctgag</i> | <i>ggccgaggac</i> | <i>accgccgtgt</i> | <i>actactgcgc</i>  | <i>ccgcatcaac</i> | 300 |
| <i>aacgacccta</i> | <i>tggatgtgtg</i> | <i>gggccagggc</i> | <i>accctggtga</i> | <i>cagtgaagctc</i> | <i>a</i>          | 351 |

<400> 302  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
35 40 45

His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

$\langle 210 \rangle$  303  
 $\langle 211 \rangle$  5

<212> PRT  
 <213> *Homo sapiens*

<400> 303  
 Ser Tyr Ala Met Asn  
 1 5

<210> 304  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 304  
 Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser His His  
 1 5 10 15

*Gly*

<210> 305  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 305  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 306  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 306  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 307  
 <211> 111

102

<212> PRT

<213> *Homo sapiens*

<400> 307

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 308

<211> 11

<212> PRT

<213> *Homo sapiens*

<400> 308

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 309

<211> 7

<212> PRT

<213> *Homo sapiens*

<400> 309

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 310

<211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 310  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 311  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 311  
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 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc accaccacct gatcagccac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 312  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 312  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His His His Leu Ile Ser His Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

104

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 313  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 313  
Ser Tyr Ala Met Asn  
1 5

<210> 314  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 314  
Thr Ile Ser Tyr His His His Leu Ile Ser His Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 315  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 315  
Ile Asn Asn Asp Pro Met Asp Val  
1 5

<210> 316  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 316

105

|                                                                          |     |
|--------------------------------------------------------------------------|-----|
| <i>agtatcgagc tgacccagcc ccccgagctg agcgtgtccc caggccagac cgccagcatc</i> | 60  |
| <i>acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc</i> | 120 |
| <i>cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg</i> | 180 |
| <i>ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg</i> | 240 |
| <i>gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac</i> | 300 |
| <i>gtgttcggcg gagggaccaa gttaaccgtc cta</i>                              | 333 |

<210> 317  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 317  
*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
 1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
 20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
 35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
 50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
 65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr*  
 85 90 95

*Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
 100 105 110

<210> 318  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 318

106

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 319  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 319  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 320  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 320  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 321  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 321

|                                                                   |     |
|-------------------------------------------------------------------|-----|
| gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg | 60  |
| tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc | 120 |
| ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagccac | 180 |
| gccgaccacc ataagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac | 240 |
| ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac | 300 |
| aacgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a          | 351 |

<210> 322  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 322

|                                                                 |  |  |
|-----------------------------------------------------------------|--|--|
| Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly |  |  |
| 1 5 10 15                                                       |  |  |

107

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
                   20                                  25                                  30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
           35                                  40                                  45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser His Ala Asp His His  
       50                                  55                                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
   65                                  70                                  75                                  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                                   85                                  90                                  95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
                   100                                  105                                  110

Val Thr Val Ser Ser  
       115

<210> 323  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 323  
 Ser Tyr Ala Met Asn  
 1                                  5

<210> 324  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 324  
 Thr Ile Ser Tyr His Gly His His Ile Ser His Ala Asp His His Lys  
 1                                  5                                  10                                  15

Gly

<210> 325

<211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 325  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 326  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 326  
 agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 327  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 327  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 328  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 328  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 329  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 329  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 330  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 330  
Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 331  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 331  
gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgcc tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagt ggtgtccacc atcagctacc acgggcacca catcagctac 180  
gccgacagcc atcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

110

ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcg ccccatcaac 300

aacgacccta tggatgtgtg gggccagggc accctggtga cagtga gctc a 351

<210> 332

<211> 117

<212> PRT

<213> Homo sapiens

<400> 332

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 333

<211> 5

<212> PRT

<213> Homo sapiens

<400> 333

Ser Tyr Ala Met Asn  
1 5

<210> 334  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 334  
 Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
 1 5 10 15

His

<210> 335  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 335  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 336  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 336  
 agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 337  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 337  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

112

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
                   20                  25                  30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
           35                  40                  45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
       50                  55                  60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
   65                  70                  75                  80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
           85                  90                  95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
           100                  105                  110

<210> 338  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
   1                  5                  10

<210> 339  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 339  
 Asp Asp Ser Asn Arg Pro Ser  
   1                  5

<210> 340  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 340  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
   1                  5                  10

<210> 341  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 341  
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 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atccaccaca gcgggcacct gcacagctac 180  
 caccaccacg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 342  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 342  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile His His Ser Gly His Leu His Ser Tyr His His His Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
115

<210> 343  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 343  
Ser Tyr ALA Met Asn  
1 5

<210> 344  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 344  
Thr Ile His His Ser Gly His Leu His Ser Tyr His His His Val Lys  
1 5 10 15

Gly

<210> 345  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 345  
Ile Asn Asn Asp Pro Met Asp Val  
1 5

<210> 346  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 346  
agtatcgagc tgacccagcc ccccgagctg agcgtgtccc caggccagac cgccagcatc 60  
acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

115

*gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac* 300

*gtgttcggcg gagggaccaa gttaaccgtc cta* 333

<210> 347

<211> 111

<212> PRT

<213> *Homo sapiens*

<400> 347

*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr*  
85 90 95

*Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
100 105 110

<210> 348

<211> 11

<212> PRT

<213> *Homo sapiens*

<400> 348

*Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln*  
1 5 10

<210> 349

<211> 7

<212> PRT

<213> *Homo sapiens*

&lt;400&gt; 349

Asp Asp Ser Asn Arg Pro Ser

1 5

&lt;210&gt; 350

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 350

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val

1 5 10

&lt;210&gt; 351

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 351

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60

tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120

ccaggcaagg gcctggagtg ggtgtccacc atcagccaca gcgggcacct gcaccactac 180

gccgacagcc ataagcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300

aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

&lt;210&gt; 352

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 352

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

117

Ser Thr Ile Ser His Ser Gly His Leu His His Tyr Ala Asp Ser His  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 353  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 353  
 Ser Tyr Ala Met Asn  
 1 5

<210> 354  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 354  
 Thr Ile Ser His Ser Gly His Leu His His Tyr Ala Asp Ser His Lys  
 1 5 10 15

His

<210> 355  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 355  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 356  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 356  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 357  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 357  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 358  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 358  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 359  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 359  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 360  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 360  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 361  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 361  
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 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
 cacgacagcg tgcatacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctgggtga cagtgaagctc a 351

<210> 362  
 <211> 117  
 <212> PRT

120

<213> *Homo sapiens*

<400> 362

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 363

<211> 5

<212> PRT

<213> *Homo sapiens*

<400> 363

Ser Tyr Ala Met Asn  
1 5

<210> 364

<211> 17

<212> PRT

<213> *Homo sapiens*

<400> 364

Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val His  
1 5 10 15

His

<210> 365  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 365  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 366  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 366  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 367  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 367  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

122  
 Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 368  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 368  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 369  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 369  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 370  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 370  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 371  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 371  
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*tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120*  
*ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagccac 180*  
*gcccaccacg tgcattggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240*  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300*  
*aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351*

<210> 372

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 372

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
 1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
 20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
 35 40 45

*Ser Thr Ile Ser Tyr His Gly His His Ile Ser His Ala His His Val*  
 50 55 60

*His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
 65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
 85 90 95

*Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
 100 105 110

*Val Thr Val Ser Ser*  
 115

<210> 373

<211> 5

<212> PRT

<213> *Homo sapiens*

<400> 373

Ser Tyr Ala Met Asn

1 5

<210> 374

<211> 17

<212> PRT

<213> *Homo sapiens*

<400> 374

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

1 5 10 15

Gly

<210> 375

<211> 8

<212> PRT

<213> *Homo sapiens*

<400> 375

Ile Asn Asn Asp Pro Met Asp Val

1 5

<210> 376

<211> 333

<212> DNA

<213> *Homo sapiens*

<400> 376

agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 377

<211> 111

<212> PRT

<213> *Homo sapiens*

<400> 377

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 378

<211> 11

<212> PRT

<213> *Homo sapiens*

<400> 378

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 379

<211> 7

<212> PRT

<213> *Homo sapiens*

<400> 379

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 380

<211> 14

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 380

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val

1 5 10

&lt;210&gt; 381

&lt;211&gt; 351

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 381

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60

tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120

ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180

gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300

caccaccctc acgatcactg gggccagggc accctggtga cagtgaagctc a 351

&lt;210&gt; 382

&lt;211&gt; 117

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 382

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val

50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65 70 75 80

127

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*

85                      90                      95

Ala Arg Ile His His His Pro His Asp His Trp Gly Gln Gly Thr Leu  
100 105 110

**Val Thr Val Ser Ser**  
**115**

<210> 383  
<211> 5  
<212> PRT  
<213> *Homo sapiens*

<400> 383  
Ser Tyr Ala Met Asn  
1 5

<210> 384  
<211> 17  
<212> PRT  
<213> *Homo sapiens*

**<400> 384**  
**Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys**  
**1 5 10 15**

***Gly***

<210> 385  
<211> 8  
<212> PRT  
<213> *Homo sapiens*

<400> 385  
Ile His His His Pro His Asp His  
1 5

<210> 386  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 386  
agtatcgaac tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc

*acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc* 120  
*cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg* 180  
*ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg* 240  
*gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac* 300  
*gtgttcggcg gagggaccaa gttaaccgtc cta* 333

<210> 387

<211> 111

<212> PRT

<213> *Homo sapiens*

<400> 387

*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
 1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
 20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
 35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
 50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
 65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr*  
 85 90 95

*Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
 100 105 110

<210> 388

<211> 11

<212> PRT

<213> *Homo sapiens*

<400> 388

*Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln*

129  
1 5 10

<210> 389  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 389  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 390  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 390  
Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 391  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 391  
gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc cgcgatcaac 300  
cacgacccta tggatcactg gggccagggc accctggtga cagtgagctc a 351

<210> 392  
<211> 117  
<212> PRT  
<213> Homo sapiens

<400> 392  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

**<210> 395**  
**<211> 8**

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 395

*Ile Asn His Asp Pro Met Asp His*

1 5

&lt;210&gt; 396

&lt;211&gt; 333

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 396

*agtatcgagc tgacccagcc ccccgagctg agcgtgtccc caggccagac cgccagcatc 60**acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120**cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180**ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240**gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300**gtgttcggcg gagggaccaa gttaaccgtc cta 333*

&lt;210&gt; 397

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 397

*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*

1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*

20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*

35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*

50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*

65 70 75 80

132

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 398  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 398  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 399  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 399  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 400  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 400  
Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 401  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 401  
gagggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300

aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a

351

<210> 402

<211> 117

<212> PRT

<213> Homo sapiens

<400> 402

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 403

<211> 5

<212> PRT

<213> Homo sapiens

<400> 403

Ser Tyr Ala Met Asn  
1 5

<210> 404

<211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 404  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 405  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 405  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 406  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 406  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg gacgggcacc acacgacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gttaaccgtc cta 333

<210> 407  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 407  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val

**Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr**

**35 40 45**

**Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser**

**50 55 60**

**Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met**

**65 70 75 80**

**Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp Asp Gly His His Thr Thr**

**85 90 95**

**Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu**

**100 105 110**

<210> 411  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 411  
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 tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a 351

<210> 412  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 412  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
115

<210> 413  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 413  
Ser Tyr ALA Met Asn  
1 5

<210> 414  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 414  
Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr ALA Asp Ser Val Lys  
1 5 10 15

Gly

<210> 415  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 415  
Ile Asn Asn Asp Pro Met Asp Val  
1 5

<210> 416  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 416  
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acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
gacgaggccg actactactg ccagcactgg gacgggcacc accacacggg ggagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta

333

<210> 417

<211> 111

<212> PRT

<213> Homo sapiens

<400> 417

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln His Trp Asp Gly His His His Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 418

<211> 11

<212> PRT

<213> Homo sapiens

<400> 418

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 419

<211> 7

<212> PRT

<213> Homo sapiens

&lt;400&gt; 419

Asp Asp Ser Asn Arg Pro Ser

1 5

&lt;210&gt; 420

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 420

Gln His Trp Asp Gly His His His Thr Gly Glu Thr Asn Val

1 5 10

&lt;210&gt; 421

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 421

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60

tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120

ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180

gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300

aacgacccta tggatgtgtg gggccagggc accctgggtga cagtgaagctc a 351

&lt;210&gt; 422

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 422

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val

50

55

140

60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 423  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 423  
Ser Tyr Ala Met Asn  
1 5

<210> 424  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 424  
Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 425  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 425  
Ile Asn Asn Asp Pro Met Asp Val  
1 5

<210> 426  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 426  
 agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgaatg 240  
 gacgaggccg actactactg ccagcactgg cacgggaacc cgcacacggg ggagcacaac 300  
 cacttcggcg gagggaccaa gttaaccgtc cta 333

<210> 427  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 427  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln His Trp His Gly Asn Pro His Thr  
 85 90 95

Gly Glu His Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 428  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 428  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 429  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 429  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 430  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 430  
 Gln His Trp His Gly Asn Pro His Thr Gly Glu His Asn His  
 1 5 10

<210> 431  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 431  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctgggtga cagtga gctc a 351

<210> 432  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

&lt;400&gt; 432

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

&lt;210&gt; 433

&lt;211&gt; 5

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 433

Ser Tyr Ala Met Asn  
 1 5

&lt;210&gt; 434

&lt;211&gt; 17

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 434

Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 435  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 435  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 436  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 436  
 agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg gaccacaacc cgcaccatca tcacaccaac 300  
 cacttcggcg gagggaccaa gttaaccgtc cta 333

<210> 437  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 437  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser

50

55

145

60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp Asp His Asn Pro His His  
 85 90 95

His His Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

&lt;210&gt; 438

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 438

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

&lt;210&gt; 439

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 439

Asp Asp Ser Asn Arg Pro Ser  
 1 5

&lt;210&gt; 440

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 440

His Thr Trp Asp His Asn Pro His His His His Thr Asn His  
 1 5 10

&lt;210&gt; 441

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 441

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg

60

146

tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 442

<211> 117

<212> PRT

<213> Homo sapiens

<400> 442

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 443

<211> 5

<212> PRT

<213> Homo sapiens

&lt;400&gt; 443

Ser Tyr Ala Met Asn

1 5

&lt;210&gt; 444

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 444

Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

&lt;210&gt; 445

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 445

Ile Asn Asn Asp Pro Met Asp Val

1 5

&lt;210&gt; 446

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 446

agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

gacgaggccg actactactg ccaccactgg caccacaacc cgacgcatca tgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 447

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 447

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His His Trp His His Asn Pro Thr His  
 85 90 95

His Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

&lt;210&gt; 448

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 448

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

&lt;210&gt; 449

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 449

Asp Asp Ser Asn Arg Pro Ser  
 1 5

&lt;210&gt; 450

&lt;211&gt; 14

&lt;212&gt; PRT

<213> *Homo sapiens*

<400> 450

His His Trp His His Asn Pro Thr His His Glu Thr Asn Val  
1 5 10

<210> 451

<211> 351

<212> DNA

<213> *Homo sapiens*

<400> 451

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 452

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 452

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

85 90 150 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 453  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 453  
Ser Tyr Ala Met Asn  
1 5

<210> 454  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 454  
Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 455  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 455  
Ile Asn Asn Asp Pro Met Asp Val  
1 5

<210> 456  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 456  
agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60

151

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
gacgaggccg actactactg ccagcactgg cacgggcacc accacacggg ggagaccaac 300  
gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 457

<211> 111

<212> PRT

<213> Homo sapiens

<400> 457

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln His Trp His Gly His His His Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 458

<211> 11

<212> PRT

<213> Homo sapiens

<400> 458

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 459  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 459  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 460  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 460  
 Gln His Trp His Gly His His His Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 461  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 461  
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 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatccactac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 462  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 462  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile His Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 463  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 463  
 Ser Tyr Ala Met Asn  
 1 5

<210> 464  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 464  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile His Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 465  
 <211> 8  
 <212> PRT

<213> *Homo sapiens*

<400> 465

Ile Asn His Asp Pro Met Asp Val

1 5

<210> 466

<211> 333

<212> DNA

<213> *Homo sapiens*

<400> 466

agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggccatg 240

gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 467

<211> 111

<212> PRT

<213> *Homo sapiens*

<400> 467

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr

85 155 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 468  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 468  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 469  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 469  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 470  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 470  
Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 471  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 471  
gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgccca tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagccaca gcgggcacca catcagccac 180  
cacgacagcc atcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300

*cacgacccta tggatgtgtg gggccagggc accctggtga cagtga gctc a*

<210> 472

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 472

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
 1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
 20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
 35 40 45

*Ser Thr Ile Ser His Ser Gly His His Ile Ser His His Asp Ser His*  
 50 55 60

*His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
 65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
 85 90 95

*Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
 100 105 110

*Val Thr Val Ser Ser*  
 115

<210> 473

<211> 5

<212> PRT

<213> *Homo sapiens*

<400> 473

*Ser Tyr Ala Met Asn*  
 1 5

<210> 474

<211> 17

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 474

Thr Ile Ser His Ser Gly His His Ile Ser His His Asp Ser His His  
 1 5 10 15

Gly

&lt;210&gt; 475

&lt;211&gt; 8

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 475

Ile Asn His Asp Pro Met Asp Val  
 1 5

&lt;210&gt; 476

&lt;211&gt; 333

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 476

agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 477

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 477

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 478  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 478  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 479  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 479  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 480  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 480  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 481

<211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 481  
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 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagccaca gcgggcacct gatccaccac 180  
 gccgacagcc ataagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 cagcacccta tggatgtgtg gggccagggc accctgggtga cagtgaagctc a 351

<210> 482  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 482  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser His Ser Gly His Leu Ile His His Ala Asp Ser His  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser

115

<210> 483  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 483  
 Ser Tyr Ala Met Asn  
 1 5

<210> 484  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 484  
 Thr Ile Ser His Ser Gly His Leu Ile His His Ala Asp Ser His Lys  
 1 5 10 15

Gly

<210> 485  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 485  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 486  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 486  
 agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta

<210> 487

<211> 111

<212> PRT

<213> Homo sapiens

<400> 487

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 488

<211> 11

<212> PRT

<213> Homo sapiens

<400> 488

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 489

<211> 7

<212> PRT

<213> Homo sapiens

<400> 489

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 490  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 490  
Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 491  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 491  
gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggcacct gatccactac 180  
gccgaccacc atcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
cacgacccta tggatgtgtg gggccagggc accctgggtga cagtga gctc a 351

<210> 492  
<211> 117  
<212> PRT  
<213> Homo sapiens

<400> 492  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr Ser Gly His Leu Ile His Tyr Ala Asp His His  
50 55 60

His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 493  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 493  
Ser Tyr Ala Met Asn  
1 5

<210> 494  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 494  
Thr Ile Ser Tyr Ser Gly His Leu Ile His Tyr Ala Asp His His His  
1 5 10 15

Gly

<210> 495  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 495  
Ile Asn His Asp Pro Met Asp Val  
1 5

<210> 496

&lt;211&gt; 333

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 496

agtatcgagc tgacccagcc cccacgctg agcgtgtccc caggccagac cgccagcatc 60

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 497

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 497

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

&lt;210&gt; 498

<211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 498  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 499  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 499  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 500  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 500  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 501  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 501  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagccac 180  
 gccgaccacg tgcattggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 cacgacccta tggatgtgtg gggccagggc accctgggtga cagtgagctc a 351

<210> 502  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

166

<400> 502

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser His Ala Asp His Val  
50 55 60

His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 503

<211> 5

<212> PRT

<213> Homo sapiens

<400> 503

Ser Tyr Ala Met Asn  
1 5

<210> 504

<211> 17

<212> PRT

<213> Homo sapiens

<400> 504

Thr Ile Ser Tyr His Gly Ser His Ile Ser His Ala Asp His Val His  
1 5 10 15

Gly

<210> 505  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 505  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 506  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 506  
 agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 507  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 507  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 508  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 508  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 509  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 509  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 510  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 510  
Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 511  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 511  
gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgccca tgaactgggt gcggcaggcc 120

*ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac* 180  
*cacgacagcc atcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac* 300  
*cacgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a* 351

<210> 512  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 512  
*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
 1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
 20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
 35 40 45

*Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser His*  
 50 55 60

*His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
 65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
 85 90 95

*Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
 100 105 110

*Val Thr Val Ser Ser*  
 115

<210> 513  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

&lt;400&gt; 513

Ser Tyr Ala Met Asn

1 5

&lt;210&gt; 514

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 514

Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser His His

1 5 10 15

Gly

&lt;210&gt; 515

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 515

Ile Asn His Asp Pro Met Asp Val

1 5

&lt;210&gt; 516

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 516

agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 517

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

171

<400> 517

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 518

<211> 11

<212> PRT

<213> Homo sapiens

<400> 518

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 519

<211> 7

<212> PRT

<213> Homo sapiens

<400> 519

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 520

<211> 14

<212> PRT

<213> Homo sapiens

&lt;400&gt; 520

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

&lt;210&gt; 521

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 521

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
 gccgacagcc atcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

&lt;210&gt; 522

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 522

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 523  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 523  
 Ser Tyr Ala Met Asn  
 1 5

<210> 524  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 524  
 Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
 1 5 10 15

His

<210> 525  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 525  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 526  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 526  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

*cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg* 180  
*ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg* 240  
*gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac* 300  
*gtgttcggcg gagggaccaa gttaaccgtc cta* 333

<210> 527  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 527  
*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
 1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
 20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
 35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
 50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
 65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr*  
 85 90 95

*Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
 100 105 110

<210> 528  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 528  
*Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln*  
 1 5 10

<210> 529  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 529  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 530  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 530  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 531  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 531  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
 cacgacagcg tgcattcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 532  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 532  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

176

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 533  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 533  
Ser Tyr Ala Met Asn  
1 5

<210> 534  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 534  
Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val His  
1 5 10 15

His

<210> 535  
<211> 8  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 535

Ile Asn His Asp Pro Met Asp Val

1 5

&lt;210&gt; 536

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 536

agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 537

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln

1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val

20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr

35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser

50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met

65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr

85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 538  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 538  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 539  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 539  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 540  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 540  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 541  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 541  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatccactac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 542  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 542  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile His Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 543  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 543  
 Ser Tyr Ala Met Asn  
 1 5

<210> 544  
 <211> 17  
 <212> PRT

<213> *Homo sapiens*

<400> 544

Thr Ile Ser Tyr Ser Gly Ser Leu Ile His Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 545

<211> 8

<212> PRT

<213> *Homo sapiens*

<400> 545

Ile His His Asp Pro Met Asp Val  
1 5

<210> 546

<211> 333

<212> DNA

<213> *Homo sapiens*

<400> 546

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| agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc | 60  |
| acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc  | 120 |
| cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg  | 180 |
| ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggccatg  | 240 |
| gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac  | 300 |
| gtgttcggcg gagggaccaa gttaaccgtc cta                               | 333 |

<210> 547

<211> 111

<212> PRT

<213> *Homo sapiens*

<400> 547

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

181

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 548

<211> 11

<212> PRT

<213> Homo sapiens

<400> 548

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 549

<211> 7

<212> PRT

<213> Homo sapiens

<400> 549

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 550

<211> 14

<212> PRT

<213> Homo sapiens

<400> 550

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 551

<211> 351

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 551

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*tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc* 120  
*ccaggcaagg gcctggagtg ggtgtccacc atcagccaca gcgggcacca catcagccac* 180  
*cacgacagcc atcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac* 300  
*cacgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a* 351

&lt;210&gt; 552

&lt;211&gt; 117

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 552

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
 1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
 20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
 35 40 45

*Ser Thr Ile Ser His Ser Gly His His Ile Ser His His Asp Ser His*  
 50 55 60

*His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
 65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
 85 90 95

*Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
 100 105 110

*Val Thr Val Ser Ser*  
 115

<210> 553  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 553  
 Ser Tyr Ala Met Asn  
 1 5

<210> 554  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 554  
 Thr Ile Ser His Ser Gly His His Ile Ser His His Asp Ser His His  
 1 5 10 15

*Gly*

<210> 555  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 555  
 Ile His His Asp Pro Met Asp Val  
 1 5

<210> 556  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 556  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 557  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 557  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 558  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 558  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 559  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 559  
 Asp Asp Ser Asn Arg Pro Ser

1 5

<210> 560  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 560  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 561  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 561  
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 tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggcacct gatccactac 180  
 gccgaccacc atcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 caccgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a 351

<210> 562  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 562  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly His Leu Ile His Tyr Ala Asp His His  
 50 55 60

186

His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 563  
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<212> PRT  
<213> Homo sapiens

<400> 563  
Ser Tyr Ala Met Asn  
1 5

<210> 564  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 564  
Thr Ile Ser Tyr Ser Gly His Leu Ile His Tyr Ala Asp His His His  
1 5 10 15

Gly

<210> 565  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 565  
Ile His His Asp Pro Met Asp Val  
1 5

<210> 566  
<211> 333

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 566

agtatcgcgc tgacccagcc cccacgcgtg agcgtgtccc caggccagac cgccagcatc 60

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 567

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 567

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

&lt;210&gt; 568

&lt;211&gt; 11

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 568

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln

1 5 10

&lt;210&gt; 569

&lt;211&gt; 7

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 569

Asp Asp Ser Asn Arg Pro Ser

1 5

&lt;210&gt; 570

&lt;211&gt; 14

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 570

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val

1 5 10

&lt;210&gt; 571

&lt;211&gt; 351

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 571

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tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120

ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagccac 180

gccgaccacg tgcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300

cacgacccta tggatgtgtg gggccagggc accctgggtga cagtgaagctc a 351

&lt;210&gt; 572

&lt;211&gt; 117

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 572

189

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser His Ala Asp His Val  
50 55 60

His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 573

<211> 5

<212> PRT

<213> Homo sapiens

<400> 573

Ser Tyr Ala Met Asn

1 5

<210> 574

<211> 17

<212> PRT

<213> Homo sapiens

<400> 574

Thr Ile Ser Tyr His Gly Ser His Ile Ser His Ala Asp His Val His

1 5 10 15

Gly

<210> 575  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 575  
 Ile His His Asp Pro Met Asp Val  
 1 5

<210> 576  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 577  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 577  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

191

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 578  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 578  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 579  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 579  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 580  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 580  
Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 581  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 581  
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192

ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
cacgacagcc atcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 582

<211> 117

<212> PRT

<213> Homo sapiens

<400> 582

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser His  
50 55 60

His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 583

<211> 5

<212> PRT

<213> Homo sapiens

<400> 583

Ser Tyr Ala Met Asn  
1 5

<210> 584  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 584  
Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser His His  
1 5 10 15

Gly

<210> 585  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 585  
Ile His His Asp Pro Met Asp Val  
1 5

<210> 586  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 586  
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cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
gtgttcggcg gagggaccaa gttaaccgtc cta 333

<210> 587  
<211> 111  
<212> PRT  
<213> Homo sapiens

<400> 587

194

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 588  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 588  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 589  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 589  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 590  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 590

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

&lt;210&gt; 591

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 591

gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
 gccgacagcc atcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 caccacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

&lt;210&gt; 592

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 592

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 593  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 593  
 Ser Tyr Ala Met Asn  
 1 5

<210> 594  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 594  
 Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
 1 5 10 15

His

<210> 595  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 595  
 Ile His His Asp Pro Met Asp Val  
 1 5

<210> 596  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 596  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

197

*cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg* 180  
*ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg* 240  
*gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac* 300  
*gtgttcggcg gagggaccaa gttaaccgtc cta* 333

<210> 597  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 597  
*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
 1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
 20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
 35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
 50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
 65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr*  
 85 90 95

*Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
 100 105 110

<210> 598  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 598  
*Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln*  
 1 5 10

<210> 599  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 599  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 600  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 600  
 Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
 1 5 10

<210> 601  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 601  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
 gccgacagcc atcatcacag gttcaccatc agcaggggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 cacgacccta tggatcactg gggccagggc accctggtga cagtgaagctc a 351

<210> 602  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 602  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

199

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp His Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 603  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 603  
Ser Tyr Ala Met Asn  
1 5

<210> 604  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 604  
Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
1 5 10 15

His

<210> 605  
<211> 8  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 605

Ile His His Asp Pro Met Asp His

1 5

&lt;210&gt; 606

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 606

agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60

acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300

gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 607

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 607

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

201

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 608  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 608  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 609  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 609  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 610  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 610  
Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 611  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 611  
gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
cacgacagcg tgcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
cacgacccta tggatcactg gggccagggc accctggtga cagtga gctc a 351

<210> 612  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 612  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile His His Asp Pro Met Asp His Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 613  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 613  
 Ser Tyr Ala Met Asn  
 1 5

<210> 614  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

&lt;400&gt; 614

Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val His  
 1 5 10 15

His

&lt;210&gt; 615

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 615

Ile His His Asp Pro Met Asp His  
 1 5

&lt;210&gt; 616

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 616

agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgacggg cgagaccaac 300  
 gtgttcggcg gagggaccaa gttaaccgtc cta 333

&lt;210&gt; 617

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 617

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

204

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr Thr  
85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 618

<211> 11

<212> PRT

<213> Homo sapiens

<400> 618

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 619

<211> 7

<212> PRT

<213> Homo sapiens

<400> 619

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 620

<211> 14

<212> PRT

<213> Homo sapiens

<400> 620

Gln Thr Trp Asp Gly Asn Pro Thr Thr Gly Glu Thr Asn Val  
1 5 10

<210> 621

<211> 351

<212> DNA

<213> *Homo sapiens*

&lt;400&gt; 621

gaggtgcagc tgctcgagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 cacgacccta tggatgtgtg gggccagggc accctggtca ccgtctcctc a 351

&lt;210&gt; 622

&lt;211&gt; 117

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 622

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 623  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 623  
 Ser Tyr Ala Met Asn  
 1 5

<210> 624  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 624  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 625  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 625  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 626  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 626  
 agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggccatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgcacgg cgagaccaac 300  
 gtgttcggcg gagggaccaa gctgaccgtc cta 333

<210> 627  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 627  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr His  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 628  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 628  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 629  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 629  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 630  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 630  
 Gln Thr Trp Asp Gly Asn Pro Thr His Gly Glu Thr Asn Val  
 1 5 10

<210> 631  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 631  
 gaggtgcagc tgttggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 caccacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

<210> 632  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 632  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

209

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ser | Lys | Asn | Thr | Leu | Tyr |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Ile | His | His | Asp | Pro | Met | Asp | Val | Trp | Gly | Gln | Gly | Thr | Leu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| Val | Thr | Val | Ser | Ser |
|     |     |     |     | 115 |

<210> 633  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 633  
 Ser Tyr Ala Met Asn  
 1 5

<210> 634  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 634  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 635  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 635  
 Ile His His Asp Pro Met Asp Val  
 1 5

<210> 636  
 <211> 333  
 <212> DNA

<213> *Homo sapiens*

&lt;400&gt; 636

agtatcgagc tgaccagacc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggccatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgcacgg cgagaccaac 300  
 gtgttcggcg gagggaccaa gctgaccgtc cta 333

&lt;210&gt; 637

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 637

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr His  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

&lt;210&gt; 638

&lt;211&gt; 11

&lt;212&gt; PRT

<213> *Homo sapiens*

<400> 638

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 639

<211> 7

<212> PRT

<213> *Homo sapiens*

<400> 639

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 640

<211> 14

<212> PRT

<213> *Homo sapiens*

<400> 640

Gln Thr Trp Asp Gly Asn Pro Thr His Gly Glu Thr Asn Val  
1 5 10

<210> 641

<211> 351

<212> DNA

<213> *Homo sapiens*

<400> 641

gaggtgcagc tgttgagag cggcggagg ctggtgcagc caggcggcag cctgaggctg 60  
tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
gccgacagcc atcatcacag gttcaccatc agcagggaaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
aacgacccta tggatgtgtg gggccaggga accctgggtca ccgtctcctc a 351

<210> 642

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 642

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

1 5 10 15 212  
*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
 20 25 30  
*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
 35 40 45  
*Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His*  
 50 55 60  
*His His Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
 65 70 75 80  
*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
 85 90 95  
*Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
 100 105 110  
*Val Thr Val Ser Ser*  
 115

<210> 643  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 643  
*Ser Tyr Ala Met Asn*  
 1 5

<210> 644  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 644  
*Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His*  
 1 5 10 15

*His*

<210> 645  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 645  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 646  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 646  
 agtatcagac tgaccagacc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggccatg 240  
 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgcacgg cgagaccaac 300  
 gtgttcggcg gagggaccaa gctgaccgtc cta 333

<210> 647  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 647  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

214  
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly Asn Pro Thr His  
 85 90 95

Gly Glu Thr Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 648  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 648  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 649  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 649  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 650  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 650  
 Gln Thr Trp Asp Gly Asn Pro Thr His Gly Glu Thr Asn Val  
 1 5 10

<210> 651  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 651  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcc tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180

215

*gccgacagcc atcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac* 300  
*cacgacccta tggatgtgtg gggccagggc accctggtca ccgtctcctc a* 351

<210> 652

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 652

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
35 40 45

*Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His*  
50 55 60

*His His Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
85 90 95

*Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
100 105 110

*Val Thr Val Ser Ser*  
115

<210> 653

<211> 5

<212> PRT

<213> *Homo sapiens*

<400> 653

*Ser Tyr Ala Met Asn*

1

5

&lt;210&gt; 654

&lt;211&gt; 17

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 654

Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
 1 5 10 15

*His*

&lt;210&gt; 655

&lt;211&gt; 8

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 655

Ile Asn His Asp Pro Met Asp Val  
 1 5

&lt;210&gt; 656

&lt;211&gt; 333

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 656

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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
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 gacgaggccg actactactg ccagacctgg gacgggaacc cgacgcacgg cgagaccaac 300  
 gtgttcggcg gagggaccaa gctgaccgtc cta 333

&lt;210&gt; 657

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 657

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln



218

Gln Thr Trp Asp Gly Asn Pro Thr His Gly Glu Thr Asn Val  
1 5 10

<210> 661  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 661  
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ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
cacgacccta tggatgtgtg gggccagggc accctggtca ccgtctcctc a 351

<210> 662  
<211> 117  
<212> PRT  
<213> Homo sapiens

<400> 662  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

219  
 Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 663  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 663  
 Ser Tyr Ala Met Asn  
 1 5

<210> 664  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 664  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 665  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 665  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 666  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 666  
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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

220

*ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg* 240  
*gacgaggccg actactactg ccacacctgg caccaccacc cgacgcatgg ggagcacaac* 300  
*gtgttcggcg gagggaccaa gctgaccgtc cta* 333

<210> 667  
<211> 111  
<212> PRT  
<213> *Homo sapiens*

<400> 667  
*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp His His His Pro Thr His*  
85 90 95

*Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
100 105 110

<210> 668  
<211> 11  
<212> PRT  
<213> *Homo sapiens*

<400> 668  
*Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln*  
1 5 10

<210> 669

<211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 669  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 670  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 670  
 His Thr Trp His His His Pro Thr His Gly Glu His Asn Val  
 1 5 10

<210> 671  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 671  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
 gccgacagcc atcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctggtca ccgtctcctc a 351

<210> 672  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 672  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35 40 222 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 673  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 673  
Ser Tyr Ala Met Asn  
1 5

<210> 674  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 674  
Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
1 5 10 15

His

<210> 675  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 675

Ile Asn Asn Asp Pro Met Asp Val

1 5

<210> 676

<211> 333

<212> DNA

<213> Homo sapiens

<400> 676

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acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

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gtgttcggcg gagggaccaa gctgaccgtc cta 333

<210> 677

<211> 111

<212> PRT

<213> Homo sapiens

<400> 677

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln

1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val

20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr

35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser

50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met

65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp His His His Pro Thr His

85 90 95

224

Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 678  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 678  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 679  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 679  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 680  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 680  
His Thr Trp His His His Pro Thr His Gly Glu His Asn Val  
1 5 10

<210> 681  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 681  
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tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
gccgacagcc atcatcacag gttcaccatc agcaggggaca acagcaagaa caccctgtac 240  
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
cacgacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

<210> 682  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 682  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 683  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 683  
 Ser Tyr Ala Met Asn  
 1 5

<210> 684  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

&lt;400&gt; 684

Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
 1 5 10 15

His

&lt;210&gt; 685

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 685

Ile Asn His Asp Pro Met Asp Val  
 1 5

&lt;210&gt; 686

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 686

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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg caccaccacc cgacgcatgg ggagcacaac 300  
 gtgttcggcg gagggaccaa gctgaccgtc cta 333

&lt;210&gt; 687

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 687

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*

*35                          40                      227                    45*

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*

*65                         70                         75                                      80*

*Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp His His His Pro Thr His*

*85                                              90                                      95*

*Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*

*100                                              105                                      110*

<400> 691  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 cacgacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

<210> 692  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 692  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 693  
 <211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 693  
 Ser Tyr Ala Met Asn  
 1 5

<210> 694  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 694  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

*Gly*

<210> 695  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 695  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 696  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 696  
 agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
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 ttacgcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg gaccaccacc acacgacggg ggagcacaac 300  
 gtgttcggcg gagggaccaa gctgaccgtc cta 333

230

<210> 697

<211> 111

<212> PRT

<213> *Homo sapiens*

<400> 697

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp Asp His His His Thr Thr  
85 90 95

Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 698

<211> 11

<212> PRT

<213> *Homo sapiens*

<400> 698

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 699

<211> 7

<212> PRT

<213> *Homo sapiens*

<400> 699

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 700  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 700  
 His Thr Trp Asp His His His Thr Thr Gly Glu His Asn Val  
 1 5 10

<210> 701  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 701  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
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 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 caccacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

<210> 702  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 702  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

**65**                      **70**                      **232**                      **80**

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 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg gaccaccacc acacgacggg ggagcacaac 300  
 gtgttcggcg gagggaccaa gctgaccgtc cta 333

<210> 707  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 707  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp Asp His His His Thr Thr  
 85 90 95

Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 708  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 708

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

&lt;210&gt; 709

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 709

Asp Asp Ser Asn Arg Pro Ser  
 1 5

&lt;210&gt; 710

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 710

His Thr Trp Asp His His His Thr Thr Gly Glu His Asn Val  
 1 5 10

&lt;210&gt; 711

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 711

gaggtgcagc tgttgagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
 gccgacagcc atcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

&lt;210&gt; 712

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 712

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 713

<211> 5

<212> PRT

<213> Homo sapiens

<400> 713

Ser Tyr Ala Met Asn  
 1 5

<210> 714

<211> 17

<212> PRT

<213> Homo sapiens

<400> 714

Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
 1 5 10 15

His

<210> 715  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 715  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 716  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 716  
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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
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 gtgttcggcg gagggaccaa gctgaccgtc cta 333

<210> 717  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 717  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met

**65**                      **70**                      **237**  
**75**                      **80**

*Gly Glu His Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
100 105 110

<400> 718  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

**<400> 719**  
**Asp Asp Ser Asn Arg Pro Ser**  
**1 5**

**<400> 720**  
**His Thr Trp Asp His His His Thr Thr Gly Glu His Asn Val**  
**1 5 10**

**<400> 721**

|                                                                                  |            |
|----------------------------------------------------------------------------------|------------|
| <b><i>gagggtgcagc tgctcgagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg</i></b> | <b>60</b>  |
| <b><i>tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc</i></b> | <b>120</b> |
| <b><i>ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac</i></b>  | <b>180</b> |

238

*gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac* 300  
*cacgacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a* 351

<210> 722

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 722

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
35 40 45

*Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val*  
50 55 60

*Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
85 90 95

*Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
100 105 110

*Val Thr Val Ser Ser*  
115

<210> 723

<211> 5

<212> PRT

<213> *Homo sapiens*

<400> 723

*Ser Tyr Ala Met Asn*  
1 5

<210> 724  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 724  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

*Gly*

<210> 725  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 725  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 726  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 726  
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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccagacctgg gacgggcacc accacacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gctgaccgtc cta 333

<210> 727  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 727  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

240

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly His His His Thr  
85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 728  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 728  
Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 729  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 729  
Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 730  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 730  
Gln Thr Trp Asp Gly His His His Thr Gly Glu Thr Asn His

1 5 10 241

<210> 731  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

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 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcaggggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 cacgacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

<210> 732  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 732  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu

242

100

105

110

Val Thr Val Ser Ser  
115

<210> 733  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 733  
Ser Tyr Ala Met Asn  
1 5

<210> 734  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 734  
Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 735  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 735  
Ile His His Asp Pro Met Asp Val  
1 5

<210> 736  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 736  
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acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

243

*ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg* 240  
*gacgaggccg actactactg ccagacctgg gacgggcacc accacacggg ggagaccaac* 300  
*cacttcggcg gagggaccaa gctgaccgtc cta* 333

<210> 737

<211> 111

<212> PRT

<213> *Homo sapiens*

<400> 737

*Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln*  
1 5 10 15

*Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val*  
20 25 30

*Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr*  
35 40 45

*Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser*  
50 55 60

*Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met*  
65 70 75 80

*Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly His His His Thr*  
85 90 95

*Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu*  
100 105 110

<210> 738

<211> 11

<212> PRT

<213> *Homo sapiens*

<400> 738

*Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln*  
1 5 10

<210> 739

<211> 7

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 739

Asp Asp Ser Asn Arg Pro Ser

1 5

&lt;210&gt; 740

&lt;211&gt; 14

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 740

Gln Thr Trp Asp Gly His His His Thr Gly Glu Thr Asn His

1 5 10

&lt;210&gt; 741

&lt;211&gt; 351

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 741

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tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120

ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180

gccgacagcc atcatcacag gttcaccatc agcaggggaca acagcaagaa caccctgtac 240

ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300

aacgacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

&lt;210&gt; 742

&lt;211&gt; 117

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 742

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35 40 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 743  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 743  
 Ser Tyr Ala Met Asn  
 1 5

<210> 744  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 744  
 Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
 1 5 10 15

His

<210> 745  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 745  
 Ile Asn Asn Asp Pro Met Asp Val

1

5

&lt;210&gt; 746

&lt;211&gt; 333

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 746

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acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120

cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180

ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240

gacgaggccg actactactg ccagacctgg gacgggcacc accacacggg ggagaccaac 300

cacttcggcg gagggaccaa gctgaccgtc cta 333

&lt;210&gt; 747

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 747

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly His His His Thr  
85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu

|     |     |     |     |
|-----|-----|-----|-----|
|     |     | 247 |     |
| 100 | 105 |     | 110 |

<210> 748  
 <211> 11  
 <212> PRT  
 <213> *Homo sapiens*

<400> 748  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 749  
 <211> 7  
 <212> PRT  
 <213> *Homo sapiens*

<400> 749  
 Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 750  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 750  
 Gln Thr Trp Asp Gly His His His Thr Gly Glu Thr Asn His  
 1 5 10

<210> 751  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 751  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
 gccgacagcc atcatcacag gttcaccatc agcaggggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 caccgacctt tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

<210> 752

&lt;211&gt; 117

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 752

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

&lt;210&gt; 753

&lt;211&gt; 5

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 753

Ser Tyr Ala Met Asn  
 1 5

&lt;210&gt; 754

&lt;211&gt; 17

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 754

249

Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
1 5 10 15

His

<210> 755  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 755  
Ile Asn His Asp Pro Met Asp Val  
1 5

<210> 756  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 756  
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acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
gacgaggccg actactactg ccagacctgg gacgggcacc accacacggg ggagaccaac 300  
cacttcggcg gagggaccaa gctgaccgtc cta 333

<210> 757  
<211> 111  
<212> PRT  
<213> Homo sapiens

<400> 757  
Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

250

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Gly His His His Thr  
85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 758

<211> 11

<212> PRT

<213> Homo sapiens

<400> 758

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
1 5 10

<210> 759

<211> 7

<212> PRT

<213> Homo sapiens

<400> 759

Asp Asp Ser Asn Arg Pro Ser  
1 5

<210> 760

<211> 14

<212> PRT

<213> Homo sapiens

<400> 760

Gln Thr Trp Asp Gly His His His Thr Gly Glu Thr Asn His  
1 5 10

<210> 761

<211> 351

<212> DNA

<213> Homo sapiens

251

<400> 761

*gaggtgcagc tgctcgagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60*  
*tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120*  
*ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180*  
*gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240*  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300*  
*cacgacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351*

<210> 762

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 762

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
35 40 45

*Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val*  
50 55 60

*Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
85 90 95

*Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
100 105 110

*Val Thr Val Ser Ser*  
115

<210> 763

<211> 5  
 <212> PRT  
 <213> *Homo sapiens*

<400> 763  
 Ser Tyr Ala Met Asn  
 1 5

<210> 764  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 764  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 765  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 765  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 766  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 766  
 agtatcgagc tgacccagcc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
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 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg gacgggcacc acacgacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gctgaccgtc cta 333

<210> 767

&lt;211&gt; 111

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 767

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp Asp Gly His His Thr Thr  
 85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

&lt;210&gt; 768

&lt;211&gt; 11

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 768

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

&lt;210&gt; 769

&lt;211&gt; 7

&lt;212&gt; PRT

<213> *Homo sapiens*

&lt;400&gt; 769

Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 770  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 770  
 His Thr Trp Asp Gly His His Thr Thr Gly Glu Thr Asn His  
 1 5 10

<210> 771  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 771  
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 ccaggcaagg gcctggagtg ggtgtccacc atcagctaca gcgggtcgct gatcagctac 180  
 gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 caccacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

<210> 772  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 772  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                             85                            90                            95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
                             100                            105                            110

Val Thr Val Ser Ser  
                             115

<210> 773  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 773  
 Ser Tyr Ala Met Asn  
 1                            5

<210> 774  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 774  
 Thr Ile Ser Tyr Ser Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1                            5                            10                            15

Gly

<210> 775  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 775  
 Ile His His Asp Pro Met Asp Val  
 1                            5

<210> 776  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 776

agtatcgagc tgacccagcc ccccgagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg gacgggcacc acacgacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gctgaccgtc cta 333

&lt;210&gt; 777

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 777

Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp Asp Gly His His Thr Thr  
 85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

&lt;210&gt; 778

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 778

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

&lt;210&gt; 779

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 779

Asp Asp Ser Asn Arg Pro Ser  
 1 5

&lt;210&gt; 780

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 780

His Thr Trp Asp Gly His His Thr Thr Gly Glu Thr Asn His  
 1 5 10

&lt;210&gt; 781

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 781

gaggtgcagc tggtggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
 gccgacagcc atcatcacag gtaccaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac 300  
 aacgacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a 351

&lt;210&gt; 782

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 782

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

258

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 783  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 783  
Ser Tyr Ala Met Asn  
1 5

<210> 784  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 784  
Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
1 5 10 15

His

<210> 785  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 785  
 Ile Asn Asn Asp Pro Met Asp Val  
 1 5

<210> 786  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 786  
 agtatcgagc tgaccagacc cccagcgtg agcgtgtccc caggccagac cgccagcatc 60  
 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg gacgggcacc acacgacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gctgaccgtc cta 333

<210> 787  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 787  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp Asp Gly His His Thr Thr  
                     85                                    90                                    95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
                     100                                    105                                    110

<210> 788  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 788  
 Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1                                    5                                    10

<210> 789  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 789  
 Asp Asp Ser Asn Arg Pro Ser  
 1                                    5

<210> 790  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 790  
 His Thr Trp Asp Gly His His Thr Thr Gly Glu Thr Asn His  
 1                                    5                                    10

<210> 791  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 791  
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 tcctgcgccg cctccggatt caccttcagc agctacgcc tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggcacca catcagctac 180  
 gccgacagcc atcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatcaac* 300

*cacgacccta tggatgtgtg gggccagggc accctgggtca ccgtctcctc a* 351

<210> 792

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 792

*Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly*  
1 5 10 15

*Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr*  
20 25 30

*Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val*  
35 40 45

*Ser Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His*  
50 55 60

*His His Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr*  
65 70 75 80

*Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys*  
85 90 95

*Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu*  
100 105 110

*Val Thr Val Ser Ser*  
115

<210> 793

<211> 5

<212> PRT

<213> *Homo sapiens*

<400> 793

*Ser Tyr Ala Met Asn*  
1 5

<210> 794  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 794  
 Thr Ile Ser Tyr His Gly His His Ile Ser Tyr Ala Asp Ser His His  
 1 5 10 15

His

<210> 795  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 795  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 796  
 <211> 333  
 <212> DNA  
 <213> *Homo sapiens*

<400> 796  
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 acctgcagcg gcgacaacct gggcaagaaa tacgtgcagt ggtatcagca gaagcccggc 120  
 cagtcccccg tgctggtgat ctacgacgac agcaacaggc ccagcggcat ccccgagagg 180  
 ttcagcggca gcaacagcgg caacaccgcc accctgacca tcagcggcac ccaggcgatg 240  
 gacgaggccg actactactg ccacacctgg gacgggcacc acacgacggg ggagaccaac 300  
 cacttcggcg gagggaccaa gctgaccgtc cta 333

<210> 797  
 <211> 111  
 <212> PRT  
 <213> *Homo sapiens*

<400> 797  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val  
 20 25 30

Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys His Thr Trp Asp Gly His His Thr Thr  
 85 90 95

Gly Glu Thr Asn His Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 798

<211> 11

<212> PRT

<213> Homo sapiens

<400> 798

Ser Gly Asp Asn Leu Gly Lys Lys Tyr Val Gln  
 1 5 10

<210> 799

<211> 7

<212> PRT

<213> Homo sapiens

<400> 799

Asp Asp Ser Asn Arg Pro Ser  
 1 5

<210> 800

<211> 14

<212> PRT

<213> Homo sapiens

<400> 800

His Thr Trp Asp Gly His His Thr Thr Gly Glu Thr Asn His  
 1 5 10

<210> 801  
 <211> 397  
 <212> PRT  
 <213> Homo sapiens

<400> 801

Met Arg Ser Pro Ser Ala Ala Trp Leu Leu Gly Ala Ala Ile Leu Leu  
 1 5 10 15

Ala Ala Ser Leu Ser Cys Ser Gly Thr Ile Gln Gly Thr Asn Arg Ser  
 20 25 30

Ser Lys Gly Arg Ser Leu Ile Gly Lys Val Asp Gly Thr Ser His Val  
 35 40 45

Thr Gly Lys Gly Val Thr Val Glu Thr Val Phe Ser Val Asp Glu Phe  
 50 55 60

Ser Ala Ser Val Leu Thr Gly Lys Leu Thr Thr Val Phe Leu Pro Ile  
 65 70 75 80

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

Leu Trp Val Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val Ile  
 100 105 110

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

Pro Leu Lys Ile Ala Tyr His Ile His Gly Asn Asn Trp Ile Tyr Gly  
 130 135 140

Glu Ala Leu Cys Asn Val Leu Ile Gly Phe Phe Tyr Gly Asn Met Tyr  
 145 150 155 160

Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp Val  
 165 170 175

Ile Val Asn Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala Ile

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 265 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 180 |     |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |     |     |
| Gly | Ile | Ser | Leu | Ala | Ile | Trp | Leu | Leu | Ile | Leu | Leu | Val | Thr | Ile | Pro |     |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Leu | Tyr | Val | Val | Lys | Gln | Thr | Ile | Phe | Ile | Pro | Ala | Leu | Asn | Ile | Thr |     |
| 210 |     |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Thr | Cys | His | Asp | Val | Leu | Pro | Glu | Gln | Leu | Leu | Val | Gly | Asp | Met | Phe |     |
| 225 |     |     |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     | 240 |
| Asn | Tyr | Phe | Leu | Ser | Leu | Ala | Ile | Gly | Val | Phe | Leu | Phe | Pro | Ala | Phe |     |
|     |     | 245 |     |     |     |     |     |     |     | 250 |     |     |     |     |     | 255 |
| Leu | Thr | Ala | Ser | Ala | Tyr | Val | Leu | Met | Ile | Arg | Met | Leu | Arg | Ser | Ser |     |
|     |     | 260 |     |     |     |     |     |     |     | 265 |     |     |     |     |     | 270 |
| Ala | Met | Asp | Glu | Asn | Ser | Glu | Lys | Lys | Arg | Lys | Arg | Ala | Ile | Lys | Leu |     |
|     |     | 275 |     |     |     |     |     |     |     |     |     | 285 |     |     |     |     |
| Ile | Val | Thr | Val | Leu | Ala | Met | Tyr | Leu | Ile | Cys | Phe | Thr | Pro | Ser | Asn |     |
| 290 |     |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Leu | Leu | Leu | Val | Val | His | Tyr | Phe | Leu | Ile | Lys | Ser | Gln | Gly | Gln | Ser |     |
| 305 |     |     |     |     |     | 310 |     |     |     |     |     | 315 |     |     |     | 320 |
| His | Val | Tyr | Ala | Leu | Tyr | Ile | Val | Ala | Leu | Cys | Leu | Ser | Thr | Leu | Asn |     |
|     |     | 325 |     |     |     |     |     |     |     | 330 |     |     |     |     |     | 335 |
| Ser | Cys | Ile | Asp | Pro | Phe | Val | Tyr | Tyr | Phe | Val | Ser | His | Asp | Phe | Arg |     |
|     |     | 340 |     |     |     |     |     |     |     | 345 |     |     |     |     |     | 350 |
| Asp | His | Ala | Lys | Asn | Ala | Leu | Leu | Cys | Arg | Ser | Val | Arg | Thr | Val | Lys |     |
|     |     | 355 |     |     |     |     |     |     |     | 360 |     |     |     |     |     | 365 |
| Gln | Met | Gln | Val | Ser | Leu | Thr | Ser | Lys | Lys | His | Ser | Arg | Lys | Ser | Ser |     |
| 370 |     |     |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |     |
| Ser | Tyr | Ser | Ser | Ser | Ser | Thr | Thr | Val | Lys | Thr | Ser | Tyr |     |     |     |     |
| 385 |     |     |     |     |     | 390 |     |     |     |     |     | 395 |     |     |     |     |

<210> 802  
 <211> 39  
 <212> PRT  
 <213> *Homo sapiens*

<400> 802  
 Ser Leu Ile Gly Lys Val Asp Gly Thr Ser His Val Thr Gly Lys Gly  
 1 5 10 15

Val Thr Val Glu Thr Val Phe Ser Val Asp Glu Phe Ser Ala Ser Val  
 20 25 30

Leu Thr Gly Lys Leu Thr Thr  
 35

<210> 803  
 <211> 30  
 <212> PRT  
 <213> *Homo sapiens*

<400> 803  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser  
 20 25 30

<210> 804  
 <211> 14  
 <212> PRT  
 <213> *Homo sapiens*

<400> 804  
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser  
 1 5 10

<210> 805  
 <211> 32  
 <212> PRT  
 <213> *Homo sapiens*

<400> 805  
 Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln  
 1 5 10 15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg  
 20 25 30

<210> 806  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 806  
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 1 5 10

<210> 807  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 807  
 Ser Ile Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15

Thr Ala Ser Ile Thr Cys  
 20

<210> 808  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 808  
 Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 1 5 10 15

<210> 809  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 809  
 Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr  
 1 5 10 15

Leu Thr Ile Ser Gly Thr Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys  
 20 25 30

<210> 810  
 <211> 10  
 <212> PRT  
 <213> *Homo sapiens*

<400> 810  
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 1 5 10

<210> 811  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 811  
 Thr Ile Ser Tyr Ser Gly Ser His Ile Ser Tyr His Asp Ser Val His  
 1 5 10 15

*His*

<210> 812  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 812  
 Thr Ile Ser Tyr His Gly Ser Leu Ile Ser Tyr His Asp Ser Val His  
 1 5 10 15

*His*

<210> 813  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 813  
 Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr Ala Asp Ser Val His  
 1 5 10 15

*His*

<210> 814

<211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 814  
 Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val Lys  
 1 5 10 15

His

<210> 815  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 815  
 Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val His  
 1 5 10 15

Gly

<210> 816  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 816  
 Thr Ile Ser Tyr His Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 817  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 817  
 Thr Ile Ser Tyr Ser Gly Ser His Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 818  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 818  
 Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

<210> 819  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 819  
 Ile His Asn Asp Pro Met Asp Val  
 1 5

<210> 820  
 <211> 8  
 <212> PRT  
 <213> *Homo sapiens*

<400> 820  
 Ile Asn His Asp Pro Met Asp Val  
 1 5

<210> 821  
 <211> 117  
 <212> PRT  
 <213> *Homo sapiens*

<400> 821  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

271

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 822  
<211> 117  
<212> PRT  
<213> Homo sapiens

<400> 822  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser His Ile Ser Tyr His Asp Ser Val  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 823  
<211> 117  
<212> PRT  
<213> Homo sapiens

<400> 823  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly Ser Leu Ile Ser Tyr His Asp Ser Val  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 824  
<211> 117  
<212> PRT  
<213> Homo sapiens

<400> 824  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 825

<211> 117

<212> PRT

<213> Homo sapiens

<400> 825

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val  
 50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                             85                            90                            95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
                             100                            105                            110

Val Thr Val Ser Ser  
                             115

<210> 826

<211> 117

<212> PRT

<213> Homo sapiens

<400> 826

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
   1                            5                            10                            15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
                             20                            25                            30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
                             35                            40                            45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val  
                             50                            55                            60

His Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
   65                            70                            75                            80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                             85                            90                            95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
                             100                            105                            110

Val Thr Val Ser Ser  
                             115

<210> 827

275

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 827

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile Asn His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 828

<211> 117

<212> PRT

<213> *Homo sapiens*

<400> 828

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr His Asp Ser Val  
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His Asn Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 829

<211> 117

<212> PRT

<213> Homo sapiens

<400> 829

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr His Gly Ser Leu Ile Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu

277

100

105

110

Val Thr Val Ser Ser  
115

<210> 830

<211> 117

<212> PRT

<213> Homo sapiens

<400> 830

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Thr Ile Ser Tyr Ser Gly Ser His Ile Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 831

<211> 117

<212> PRT

<213> Homo sapiens

<400> 831

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Thr Ile Ser Tyr His Gly Ser His Ile Ser Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ile His His Asp Pro Met Asp Val Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser  
 115

<210> 832

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic  
 peptide"

<220>

<221> MOD\_RES

<222> (6)..(6)

<223> Ornithine

<400> 832

Leu Ile Gly Arg Leu Xaa  
 1 5

<210> 833

<211> 351

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 833

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*tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc* 120  
*ccaggcaagg gcctggagtg ggtgtccacc atcagctact ccgggtcgca catcagctac* 180  
*cacgacagcg tgcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac* 300  
*cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a* 351

&lt;210&gt; 834

&lt;211&gt; 351

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 834

*gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg* 60  
*tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc* 120  
*ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgct catcagctac* 180  
*cacgacagcg tgcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac* 300  
*cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a* 351

&lt;210&gt; 835

&lt;211&gt; 351

&lt;212&gt; DNA

<213> *Homo sapiens*

&lt;400&gt; 835

*gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg* 60  
*tcctgcgccg cctccggatt caccttcagc agctacgcca tgaactgggt gcggcaggcc* 120  
*ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac* 180  
*gccgacagcg tgcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac* 300  
*cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a* 351

<210> 836  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 836  
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 tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
 cacgacagcg tgaagcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 837  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 837  
 gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60  
 tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
 cacgacagcg tgcatggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240  
 ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac 300  
 cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a 351

<210> 838  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 838  
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 tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc 120  
 ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac 180  
 cacgacagcg tgcatcacag gttcaccatc agcagggaca acagcaagaa caccctgtac 240

*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac* 300  
*aacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a* 351

<210> 839  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 839  
*gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg* 60  
*tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc* 120  
*ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgct catcagctac* 180  
*gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac* 300  
*cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a* 351

<210> 840  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 840  
*gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg* 60  
*tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc* 120  
*ccaggcaagg gcctggagtg ggtgtccacc atcagctact ccgggtcgca catcagctac* 180  
*gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac* 240  
*ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac* 300  
*cacgacccta tggatgtgtg gggccagggc accctggtga cagtgaagctc a* 351

<210> 841  
 <211> 351  
 <212> DNA  
 <213> *Homo sapiens*

<400> 841  
*gaggtgcagc tgctggagag cggcggaggg ctggtgcagc caggcggcag cctgaggctg* 60  
*tcctgcgccg cctccggatt caccttcagc agctacgcc a tgaactgggt gcggcaggcc* 120

|                                                                          |            |
|--------------------------------------------------------------------------|------------|
| <i>ccaggcaagg gcctggagtg ggtgtccacc atcagctacc acgggtcgca catcagctac</i> | <i>180</i> |
| <i>gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac</i> | <i>240</i> |
| <i>ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc ccgcatccac</i> | <i>300</i> |
| <i>cacgacccta tggatgtgtg gggccagggc accctggtga cagtgagctc a</i>          | <i>351</i> |