SEQUENCE LISTING

<110> Cephalon Australia Pty Ltd

<120> ANTI-CD38 ANTIBODIES, ANTI-CD38 ANTIBODY CONSTRUCTS AND USES THEREOF

<130> 185704-3015 (CAP572 WO)

<160> 753

<170> PatentIn version 3.5

<210> 1
<211> 258
<212> PRT
<213> Homo sapiens

<400> 1

Val Pro Arg Trp Arg Gln Gln Trp Ser Gly Pro Gly Thr Thr Lys Arg
1 5 10 15

Phe Pro Glu Thr Val Leu Ala Arg Cys Val Lys Tyr Thr Glu Ile His
20 25 30

Pro Glu Met Arg His Val Asp Cys Gln Ser Val Trp Asp Ala Phe Lys
35 40 45

Gly Ala Phe Ile Ser Lys His Pro Cys Asn Ile Thr Glu Glu Asp Tyr
50 55 60

Gln Pro Leu Met Lys Leu Gly Thr Gln Thr Val Pro Cys Asn Lys Ile
65 70 75 80

Leu Leu Trp Ser Arg Ile Lys Asp Leu Ala His Gln Phe Thr Gln Val
85 90 95

Gln Arg Asp Met Phe Thr Leu Glu Asp Thr Leu Leu Gly Tyr Leu Ala
100 105 110

Asp Asp Leu Thr Trp Cys Gly Glu Phe Asn Thr Ser Lys Ile Asn Tyr
115 120 125

Gln Ser Cys Pro Asp Trp Arg Lys Asp Cys Ser Asn Asn Pro Val Ser
130 135 140

```
Val Phe Trp Lys Thr Val Ser Arg Arg Phe Ala Glu Ala Ala Cys Asp
145                 150                 155                 160


Val Val His Val Met Leu Asn Gly Ser Arg Ser Lys Ile Phe Asp Lys
                165                 170                 175


Asn Ser Thr Phe Gly Ser Val Glu Val His Asn Leu Gln Pro Glu Lys
            180                 185                 190


Val Gln Thr Leu Glu Ala Trp Val Ile His Gly Gly Arg Glu Asp Ser
        195                 200                 205


Arg Asp Leu Cys Gln Asp Pro Thr Ile Lys Glu Leu Glu Ser Ile Ile
    210                 215                 220


Ser Lys Arg Asn Ile Gln Phe Ser Cys Lys Asn Ile Tyr Arg Pro Asp
225                 230                 235                 240


Lys Phe Leu Gln Cys Val Lys Asn Pro Glu Asp Ser Ser Cys Thr Ser
                245                 250                 255


Glu Ile
```

<210> 2
<211> 258
<212> PRT
<213> Macaca fascicularis

<400> 2

```
Leu Pro Arg Trp Arg Gln Gln Trp Ser Gly Ser Gly Thr Thr Ser Arg
1               5                   10                  15


Phe Pro Glu Thr Val Leu Ala Arg Cys Val Lys Tyr Thr Glu Val His
            20                  25                  30


Pro Glu Met Arg His Val Asp Cys Gln Ser Val Trp Asp Ala Phe Lys
        35                  40                  45


Gly Ala Phe Ile Ser Lys Tyr Pro Cys Asn Ile Thr Glu Glu Asp Tyr
```

```
    50                  55                  60

Gln Pro Leu Val Lys Leu Gly Thr Gln Thr Val Pro Cys Asn Lys Thr
65                  70                  75                  80

Leu Leu Trp Ser Arg Ile Lys Asp Leu Ala His Gln Phe Thr Gln Val
                85                  90                  95

Gln Arg Asp Met Phe Thr Leu Glu Asp Met Leu Leu Gly Tyr Leu Ala
            100                 105                 110

Asp Asp Leu Thr Trp Cys Gly Glu Phe Asn Thr Phe Glu Ile Asn Tyr
        115                 120                 125

Gln Ser Cys Pro Asp Trp Arg Lys Asp Cys Ser Asn Asn Pro Val Ser
    130                 135                 140

Val Phe Trp Lys Thr Val Ser Arg Arg Phe Ala Glu Thr Ala Cys Gly
145                 150                 155                 160

Val Val His Val Met Leu Asn Gly Ser Arg Ser Lys Ile Phe Asp Lys
                165                 170                 175

Asn Ser Thr Phe Gly Ser Val Glu Val His Asn Leu Gln Pro Glu Lys
            180                 185                 190

Val Gln Ala Leu Glu Ala Trp Val Ile His Gly Gly Arg Glu Asp Ser
        195                 200                 205

Arg Asp Leu Cys Gln Asp Pro Thr Ile Lys Glu Leu Glu Ser Ile Ile
    210                 215                 220

Ser Lys Arg Asn Ile Arg Phe Phe Cys Lys Asn Ile Tyr Arg Pro Asp
225                 230                 235                 240

Lys Phe Leu Gln Cys Val Lys Asn Pro Glu Asp Ser Ser Cys Leu Ser
                245                 250                 255

Gly Ile
```

<210> 3
<211> 327
<212> PRT
<213> Homo sapiens

<400> 3

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1               5                  10                  15


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


Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45


Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60


Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65                  70                  75                  80


Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95


Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
            100                 105                 110


Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
        115                 120                 125


Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
    130                 135                 140


Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160


Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175


Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190
```

```
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
            260                 265                 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
        275                 280                 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
    290                 295                 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305                 310                 315                 320

Leu Ser Leu Ser Leu Gly Lys
                325
```

<210> 4
<211> 330
<212> PRT
<213> Homo sapiens

<400> 4

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                   10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
```

```
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225                 230                 235                 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255
```

```
Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 5
<211> 106
<212> PRT
<213> Homo sapiens

<400> 5

```
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1               5                   10                  15

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
        35                  40                  45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
    50                  55                  60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65                  70                  75                  80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
                85                  90                  95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
            100                 105
```

<210> 6
<211> 105
<212> PRT
<213> Homo sapiens

<400> 6

Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu
1 5 10 15

Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe
20 25 30

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
35 40 45

Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
50 55 60

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
65 70 75 80

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
85 90 95

Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 7
<211> 188
<212> PRT
<213> Homo sapiens

<400> 7

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Leu Pro Gln Thr His Ser Leu
20 25 30

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
35 40 45

```
Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
    50                  55                  60

Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
65                  70                  75                  80

Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Met Asp Ser Ser
                85                  90                  95

Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
            100                 105                 110

Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
        115                 120                 125

Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
    130                 135                 140

Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
145                 150                 155                 160

Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu
                165                 170                 175

Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
            180                 185
```

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

<400> 8

```
Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr Leu Met
1               5                   10                  15

Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp
            20                  25                  30

Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln
```

```
        35                  40                  45

Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe
    50                  55                  60

Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu
65                  70                  75                  80

Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu
                85                  90                  95

Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Asn
            100                 105                 110

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

Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg
    130                 135                 140

Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser
145                 150                 155                 160

Leu Arg Ser Lys Glu
                165


<210>  9
<211>  492
<212>  PRT
<213>  Homo sapiens

<400>  9

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1               5                   10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45
```

```
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65                  70                  75                  80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
            100                 105                 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
        115                 120                 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
    130                 135                 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
            260                 265                 270
```

```
Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
        275                 280                 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
    290                 295                 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305                 310                 315                 320

Leu Ser Leu Ser Leu Gly Lys Cys Asp Leu Pro Gln Thr His Ser Leu
                325                 330                 335

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
            340                 345                 350

Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
        355                 360                 365

Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
    370                 375                 380

Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
385                 390                 395                 400

Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
                405                 410                 415

Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
            420                 425                 430

Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
        435                 440                 445

Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
    450                 455                 460

Cys Ala Trp Glu Val Val Arg Asp Glu Ile Met Arg Ser Phe Ser Leu
465                 470                 475                 480
```

Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
485 490

<210> 10
<211> 495
<212> PRT
<213> Homo sapiens

<400> 10

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

```
Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225                 230                 235                 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Cys Asp Leu Pro Gln Thr
                325                 330                 335

His Ser Leu Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg
            340                 345                 350

Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe
        355                 360                 365

Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro
    370                 375                 380

Val Leu His Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys
```

385 390 395 400

Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr
405 410 415

Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly
420 425 430

Val Gly Val Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala
435 440 445

Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys
450 455 460

Tyr Ser Pro Cys Ala Trp Glu Val Val Arg Asp Glu Ile Met Arg Ser
465 470 475 480

Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
485 490 495

<210> 11
<211> 121
<212> PRT
<213> Homo sapiens

<400> 11

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
20 25 30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65 70 75 80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 12
<211> 222
<212> PRT
<213> Homo sapiens

<400> 12

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe
115 120 125

Pro Pro Ser Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys
130 135 140

```
Leu Ile Ser Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala
145                 150                 155                 160


Asp Ser Ser Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys
                165                 170                 175


Gln Ser Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro
            180                 185                 190


Glu Gln Trp Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu
        195                 200                 205


Gly Ser Thr Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
    210                 215                 220


<210>  13
<211>  121
<212>  PRT
<213>  Homo sapiens

<400>  13

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


Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30


Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45


Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60


Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80


Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95


Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110
```

Gln Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 14
<211> 117
<212> PRT
<213> Homo sapiens

<400> 14

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85   90   95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 15
<211> 121
<212> PRT
<213> Homo sapiens

<400> 15

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

```
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110

Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 16
<211> 99
<212> PRT
<213> Homo sapiens

<400> 16

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Gly
            20                  25                  30

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

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
```

65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg

<210> 17
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 17

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
20 25 30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Ile
65 70 75 80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 18

<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 18

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
20 25 30

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

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65 70 75 80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 19
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 19

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

```
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80

Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110

Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 20
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 20

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60
```

```
Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
65                  70                  75                  80


Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95


Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110


Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 21
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 21

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


Thr Leu Ser Leu Thr Cys Lys Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30


Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45


Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60


Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80


Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95


Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110
```

Gln Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 22
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 22

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20   25   30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35   40   45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50   55   60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65   70   75   80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85   90   95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100   105   110

Gln Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 23
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 23

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


Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30


Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45


Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60


Leu Lys Ser Arg Val Thr Ile Ser Arg Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80


Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95


Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110


Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 24
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 24

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


Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Ser
            20                  25                  30


Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
```

```
        35                  40                  45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110

Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 25
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 25

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80

Ser Leu Arg Leu Thr Ser Val Arg Ala Ala Asp Thr Ala Val Tyr Tyr
```

85 90 95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 26
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 26

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

Thr Leu Lys Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
20 25 30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65 70 75 80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 27

<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 27

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
20 25 30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65 70 75 80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Leu Glu Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 28
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 28

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

```
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Lys Leu Lys Asn Gln Ile
65                  70                  75                  80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110

Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 29
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 29

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60
```

```
Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80


Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95


Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Leu Asp Val Trp Gly
            100                 105                 110


Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120


<210>  30
<211>  121
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  30

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


Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30


Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45


Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60


Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80


Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95


Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Glu Val Trp Gly
            100                 105                 110
```

Gln Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 31
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 31

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
            20   25   30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35   40   45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50   55   60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65   70   75   80

Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85   90   95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100   105   110

Gln Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 32
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 32

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


Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30


Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45


Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60


Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Phe
65                  70                  75                  80


Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95


Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110


Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 33
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 33

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


Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30


Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
```

```
        35                  40                  45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile
65                  70                  75                  80

Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val Trp Gly
            100                 105                 110

Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120


<210>  34
<211>  121
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  34

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
        35                  40                  45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
    50                  55                  60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
65                  70                  75                  80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
```

85 90 95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Leu Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 35
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 35

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
20 25 30

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

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Leu Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 36

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

<400> 36

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 37
<211> 117
<212> PRT
<213> Homo sapiens

<400> 37

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr

```
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser Asp Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Thr Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95

Met Ile Trp Pro Ser Asn Ala Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115


<210>  38
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  38

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
```

85 90 95

Met Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 39
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 39

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Ala Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 40

<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 40

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Arg Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 41
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 41

Gln Ala Val Leu Thr Gln Pro Ala Ser Leu Ser Ala Ser Pro Gly Ala
1 5 10 15

```
Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
```

<210> 42
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 42

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Arg Tyr Arg Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60
```

```
Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115
```

<210> 43
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 43

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


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


Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Met Thr
                85                  90                  95


Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln Leu Thr
            100                 105                 110
```

Val Leu Gly
        115

<210> 44
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 44

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Gly Ile Asn Val Arg Tyr
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85   90   95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 45
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 45

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ala Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 46
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 46

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Arg Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr

```
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115


<210>  47
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  47

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Arg Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
```

85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 48
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 48

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Thr Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 49

<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 49

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

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

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 50
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 50

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85   90   95

Met Thr Trp Ser Ser Asn Pro Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 51
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 51

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

```
Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95


Ile Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  52
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  52

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95


Leu Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110
```

Leu Thr Val Leu Gly
        115

<210> 53
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 53

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85   90   95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 54
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 54

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 55
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 55

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr

```
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115


<210>  56
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  56

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

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

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
```

85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 57
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 57

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Ser
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 58

<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 58

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser Asp Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 59
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 59

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

```
Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
```

<210> 60
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 60

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60
```

```
Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Ala Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115
```

<210> 61
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 61

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Thr Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110
```

Leu Thr Val Leu Gly
        115

<210> 62
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 62

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85   90   95

Met Ile Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 63
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 63

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
85 90 95

Met Thr Trp Pro Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 64
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 64

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr

```
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Ala Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115


<210>  65
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  65

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
```

85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 66
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 66

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Leu Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 67

<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 67

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 68
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 68

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

```
Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Thr Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
```

<210> 69
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 69

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60
```

```
Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gly Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  70
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  70

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr His Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110
```

Leu Thr Val Leu Gly
        115

<210> 71
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 71

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Lys Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85   90   95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 72
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 72

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Pro Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 73
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 73

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr

```
        35                  40                  45

Glu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115


<210>  74
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  74

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Gly Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
```

85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 75
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 75

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Asn Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 76

<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 76

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Pro Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 77
<211> 117
<212> PRT
<213> Homo sapiens

<400> 77

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

```
Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Ser Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115


<210>  78
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  78

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Glu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80
```

```
Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  79
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  79

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Pro Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115
```

<210> 80
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 80

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Glu Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 81
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 81

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Gln Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  82
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  82

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45
```

```
Leu Leu Tyr Pro Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
```

<210> 83
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 83

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Asn Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95
```

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 84
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 84

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Thr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 85
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 85

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Asp Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85   90   95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 86
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 86

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20   25   30

```
Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115


<210>  87
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  87

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr His Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80
```

```
Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  88
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  88

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115
```

<210> 89
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 89

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser Asn Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 90
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 90

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Ser Asp Ser Pro Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  91
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  91

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45
```

```
Leu Leu Tyr Tyr Tyr Ser Asp Ser His Asp Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
```

<210> 92
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 92

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95
```

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 93
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 93

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 94
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 94

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85   90   95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 95
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 95

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Ser
            20   25   30

```
Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115


<210>  96
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  96

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80
```

```
Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  97
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  97

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Ser
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115
```

<210> 98
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 98

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 99
<211> 117
<212> PRT
<213> Synthetic

<400> 99

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

```
Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Ser
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
```

<210> 100
<211> 117
<212> PRT
<213> Synthetic

<400> 100

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80
```

```
Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  101
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  101

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Ser
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115
```

<210> 102
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 102

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 103
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 103

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Ser
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60


Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser Gly Ile
65                  70                  75                  80


Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  104
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  104

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45
```

```
Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
```

<210> 105
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 105

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Ser
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95
```

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 106
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 106

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 107
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 107

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Ser
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85   90   95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 108
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 108

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20   25   30

```
Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
```

<210> 109
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 109

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Ser
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser Gly Ile
65                  70                  75                  80
```

```
Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95


Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110


Leu Thr Val Leu Gly
        115


<210>  110
<211>  122
<212>  PRT
<213>  Homo sapiens

<400>  110

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Ser Gly Ala
1               5                   10                  15


Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30


Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45


Gly Trp Ile Asn Pro Asn Asn Gly Gly Val Thr Phe Ala Gln Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65                  70                  75                  80


Met Asp Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys
                85                  90                  95


Ala Arg Asp Ile Arg Met Ser Gly Trp Leu Ala Pro Phe Asp Tyr Trp
            100                 105                 110


Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  111
```

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

<400> 111

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Arg Ser Asn
20 25 30

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

Ser Ala Ile Ser Gly Ser Gly Asp Ser Thr Tyr 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 Lys Val Ala Val Thr Thr Gly Trp Tyr Phe Asp Leu Trp Gly Arg
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 112
<211> 117
<212> PRT
<213> Homo sapiens

<400> 112

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr

```
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Asp Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Thr Ser Ala Asn Thr Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
                85                  90                  95

Met Ile Trp Ala Ser Asn Gly Ser Gly Val Leu Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
```

<210> 113
<211> 117
<212> PRT
<213> Homo sapiens

<400> 113

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr
            20                  25                  30

His Asn Ile Tyr Trp Tyr Gln Glu Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser Ser Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Thr Gly Ile
65                  70                  75                  80

Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Glu Tyr Tyr Cys
                85                  90                  95
```

Met Thr Trp Ser Ser Asn Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 114
<211> 120
<212> PRT
<213> Rattus norvegicus

<400> 114

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

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

Ile Met His Trp Val Lys Gln Ser Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Glu Lys Phe
50 55 60

Lys Lys Lys Ala Thr Leu Thr Ala Asp Thr Ser Ser Ser Thr Ala Tyr
65 70 75 80

Ile Gln Leu Ser Ser Leu Ala Ser Glu Asp Thr Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 115
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 115

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Ile Met His Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Thr Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 116
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 116

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Ile Met His Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met

```
        35                  40                  45

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Glu Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  117
<211>  120
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  117

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30

Ile Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Leu
    50                  55                  60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65                  70                  75                  80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
```

85 90 95

Ala Arg Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 118
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 118

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Ile Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Leu
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 119

<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 119

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

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Thr Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 120
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 120

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

```
Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr Asp Tyr
            20                  25                  30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80

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

Ala Thr Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 121
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 121

```
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1               5                   10                  15

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe
    50                  55                  60
```

```
Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Thr Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 122
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 122

```
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1               5                   10                  15


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


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


Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Arg Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
            100                 105                 110
```

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 123
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 123

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Ile Met His Trp Val Arg Gln Ala Pro Gly Gln Ala Leu Glu Trp Met
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Asp Arg Val Thr Ile Thr Arg Asp Arg Ser Met Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 124
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 124

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Ile Met His Trp Val Arg Gln Ala Pro Gly Gln Ala Leu Glu Trp Met
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Asp Arg Val Thr Ile Thr Ala Asp Arg Ser Met Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 125
<211> 108
<212> PRT
<213> Rattus norvegicus

<400> 125

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

Glu Thr Val Thr Ile Glu Cys Arg Ala Ser Glu Asp Ile Tyr Ser Asn
20 25 30

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

```
Tyr Asp Ala Asn Ser Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Ala
    50                  55                  60

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

Glu Asp Val Ala Ser Tyr Phe Cys Gln Gln Tyr Asn Asn Tyr Pro Tyr
                85                  90                  95

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg
            100                 105
```

<210> 126
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 126

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1               5                   10                  15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asp Ile Tyr Ser Asn
            20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Asp Ala Asn Ser Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Asn Tyr Pro Tyr
                85                  90                  95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100                 105
```

<210> 127
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 127

Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asp Ile Tyr Ser Asn
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Asp Ala Asn Ser Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 128
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 128

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asp Ile Tyr Ser Asn
20 25 30

```
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Asp Ala Asn Ser Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100                 105
```

<210> 129
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 129

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asp Ile Tyr Ser Asn
            20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Asp Ala Asn Ser Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Asn Tyr Pro Tyr
                85                  90                  95
```

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 130
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 130

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asp Ile Tyr Ser Asn
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
35 40 45

Tyr Asp Ala Asn Ser Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 131
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 131

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


Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Asp Ile Tyr Ser Asn
            20                  25                  30


Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
        35                  40                  45


Tyr Asp Ala Asn Ser Leu Ala Asp Gly Ile Pro Ala Arg Phe Ser Gly
    50                  55                  60


Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65                  70                  75                  80


Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Tyr Pro Tyr
                85                  90                  95


Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100                 105
```

<210> 132
<211> 123
<212> PRT
<213> Rattus norvegicus

<400> 132

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


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


Ile Met His Trp Val Lys Gln Ser Pro Gly Gln Gly Leu Glu Trp Ile
        35                  40                  45


Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Glu Lys Phe
    50                  55                  60


Lys Lys Lys Ala Thr Leu Thr Ala Asp Thr Ser Ser Ser Thr Ala Tyr
65                  70                  75                  80
```

```
Ile Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Thr Tyr Phe Cys
                85                  90                  95


Ala Arg Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  133
<211>  123
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  133

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


Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30


Ile Met His Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
        35                  40                  45


Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Glu Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Thr Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 134
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 134

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Ile Phe Thr Asp Tyr
20 25 30

Ile Met His Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Thr Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 135
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 135

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

1 5 10 15

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Ile Met His Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 136
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 136

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Ile Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Leu

50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 137
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 137

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Ile Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Leu
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr

```
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  138
<211>  123
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  138

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


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


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


Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Thr Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  139
<211>  123
<212>  PRT
<213>  Artificial Sequence
```

<220>
<223> Completely synthesized.

<400> 139

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

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe
    50   55   60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65   70   75   80

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

Ala Thr Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
            100   105   110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 140
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 140

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

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

```
Ile Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
        35                  40                  45

Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
            100                 105                 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 141
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 141

```
Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1               5                   10                  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30

Ile Met His Trp Val Arg Gln Ala Pro Gly Gln Ala Leu Glu Trp Met
        35                  40                  45

Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe
    50                  55                  60

Gln Asp Arg Val Thr Ile Thr Arg Asp Arg Ser Met Ser Thr Ala Tyr
65                  70                  75                  80
```

```
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys
                85                  90                  95


Ala Arg Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  142
<211>  123
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  142

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1               5                   10                  15


Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30


Ile Met His Trp Val Arg Gln Ala Pro Gly Gln Ala Leu Glu Trp Met
        35                  40                  45


Gly Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe
    50                  55                  60


Gln Asp Arg Val Thr Ile Thr Ala Asp Arg Ser Met Ser Thr Ala Tyr
65                  70                  75                  80


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


Ala Arg Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 143
<211> 113
<212> PRT
<213> Rattus norvegicus

<400> 143

Asp Ile Val Met Thr Gln Gly Ala Leu Pro Asn Pro Val Pro Ser Gly
1 5 10 15

Glu Ser Ala Ser Ile Thr Cys Gln Ser Ser Glu Ser Leu Leu His Ser
20 25 30

Asn Gly Lys Thr Tyr Leu Asn Trp Tyr Leu Gln Arg Pro Gly Gln Ser
35 40 45

Pro Gln Leu Leu Ile Tyr Trp Met Ser Thr Arg Ala Ala Gly Val Ser
50 55 60

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

Ser Gly Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Phe
85 90 95

Leu Glu Tyr Pro Pro Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 144
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 144

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

Gln Pro Ala Ser Ile Ser Cys Gln Ser Ser Glu Ser Leu Leu His Ser
            20   25   30

Asn Gly Lys Thr Tyr Leu Asn Trp Leu Gln Gln Arg Pro Gly Gln Pro
        35   40   45

Pro Arg Leu Leu Ile Tyr Trp Met Ser Thr Arg Ala Ala Gly Val Pro
    50   55   60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Phe
                85   90   95

Leu Glu Tyr Pro Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
            100   105   110

Arg

<210> 145
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 145

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

Glu Pro Ala Ser Ile Ser Cys Gln Ser Ser Glu Ser Leu Leu His Ser
            20   25   30

Asn Gly Lys Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35   40   45

Pro Gln Leu Leu Ile Tyr Trp Met Ser Thr Arg Ala Ala Gly Val Pro
    50   55   60

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


Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Phe
                85                  90                  95


Leu Glu Tyr Pro Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
            100                 105                 110


Arg
```

<210> 146
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 146

```
Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly
1               5                   10                  15


Gln Pro Ala Ser Ile Ser Cys Gln Ser Ser Glu Ser Leu Leu His Ser
            20                  25                  30


Asn Gly Lys Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Pro Gly Gln Pro
        35                  40                  45


Pro Gln Leu Leu Ile Tyr Trp Met Ser Thr Arg Ala Ala Gly Val Pro
    50                  55                  60


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


Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Phe
                85                  90                  95


Leu Glu Tyr Pro Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
            100                 105                 110
```

Arg

<210> 147
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 147

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Gln Ser Ser Glu Ser Leu Leu His Ser
20 25 30

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

Pro Arg Arg Leu Ile Tyr Trp Met Ser Thr Arg Ala Ala Gly Val Pro
50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Phe
85 90 95

Leu Glu Tyr Pro Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 148
<211> 120
<212> PRT
<213> Rattus norvegicus

<400> 148

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

1 5 10 15

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

Val Met Asn Trp Val Lys Gln Ser Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
50 55 60

Lys Lys Lys Ala Thr Leu Thr Ala Asp Ser Ser Ser Ser Thr Ala Tyr
65 70 75 80

Ile Tyr Leu Ser Gly Leu Thr Ser Glu Asp Thr Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Ser Leu Val Thr Val Ser Ser
115 120

<210> 149
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 149

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

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe

```
    50                  55                  60

Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80

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

Ala Thr Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110

Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 150
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 150

```
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1               5                   10                  15

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80

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

Ala Thr Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
```

100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 151
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 151

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

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 152
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 152

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

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe
    50   55   60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65   70   75   80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100   105   110

Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 153
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 153

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1   5   10   15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Ser
            20   25   30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe
    50   55   60

Gln Asp Arg Val Thr Ile Thr Arg Asp Arg Ser Met Ser Thr Ala Tyr
65   70   75   80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100   105   110

Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 154
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 154

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1   5   10   15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Ser
            20   25   30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe
    50   55   60

Gln Asp Arg Val Thr Ile Thr Ala Asp Arg Ser Met Ser Thr Ala Tyr
65   70   75   80

```
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys
                85                  90                  95


Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Thr Val Thr Val Ser Ser
        115                 120


<210>  155
<211>  120
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  155

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


Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20                  25                  30


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


Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Thr Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 156
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 156

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
20 25 30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 157
<211> 108
<212> PRT
<213> Rattus norvegicus

<400> 157

Asp Ile Val Met Thr Gln Ser Pro Thr Ser Ile Ser Ile Ser Val Gly
1 5 10 15

```
Glu Arg Val Thr Met Asn Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
    50                  55                  60

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

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

Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys Arg
            100                 105
```

<210> 158
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 158

```
Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
1               5                   10                  15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80
```

Glu Asp Phe Ala Thr Tyr Tyr Cys Met Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 159
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 159

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Met Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 160
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 160

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Met Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 161
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 161

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 162
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 162

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

Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

Val Asp Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Arg Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 163
<211> 108

<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 163

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

Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

Val Asp Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 164
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 164

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Lys Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala
65                  70                  75                  80

Glu Asp Ala Ala Thr Tyr Tyr Cys Met Gln Ser Asn Thr His Pro Arg
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105
```

<210> 165
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 165

```
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1               5                   10                  15

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20                  25                  30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 166
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 166

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
20 25 30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 167
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 167

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20   25   30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50   55   60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65   70   75   80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100   105   110

Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 168
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 168

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20   25   30

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


Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Thr Val Thr Val Ser Ser
        115                 120


<210>  169
<211>  120
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  169

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


Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20                  25                  30


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


Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80
```

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 170
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 170

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
20 25 30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 171
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 171

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
20 25 30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 172
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 172

```
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1               5                   10                  15


Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20                  25                  30


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


Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 173
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 173

```
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1               5                   10                  15


Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20                  25                  30


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

```
Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110

Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 174
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 174

```
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1               5                   10                  15

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20                  25                  30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 175
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 175

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
20 25 30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Glu Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 176
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 176

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20   25   30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50   55   60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65   70   75   80

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

Ala Gly Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100   105   110

Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 177
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 177

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20   25   30

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


Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Pro Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Thr Val Thr Val Ser Ser
        115                 120


<210>  178
<211>  120
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  178

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


Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20                  25                  30


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


Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80
```

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


Ala Thr Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Thr Val Thr Val Ser Ser
        115                 120


<210>  179
<211>  120
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  179

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


Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20                  25                  30


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


Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Arg Thr Gly Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 180
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 180

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
20 25 30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Thr Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 181
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 181

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15


Asp Arg Val Thr Ile Thr Cys Glu Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30


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


Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60


Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80


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


Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105


<210>  182
<211>  108
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  182

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15


Asp Arg Val Thr Ile Thr Cys Gly Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30


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


Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60
```

```
Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80


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


Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105


<210>  183
<211>  108
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  183

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15


Asp Arg Val Thr Ile Thr Cys Pro Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30


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


Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60


Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80


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


Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105


<210>  184
<211>  108
<212>  PRT
<213>  Artificial Sequence
```

<220>
<223> Completely synthesized.

<400> 184

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1   5   10   15

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asn Val Asp Ser Asp
            20   25   30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50   55   60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65   70   75   80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100   105

<210> 185
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 185

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1   5   10   15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
            20   25   30

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

```
Tyr Lys Ala Ser Asn Asp Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105
```

<210> 186
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 186

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30

Val Asp Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Asp
        35                  40                  45

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105
```

<210> 187
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 187

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Glu Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 188
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 188

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

```
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Ile Ala Thr Tyr Tyr Cys Ala Gln Ser Asn Thr His Pro Arg
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105
```

<210> 189
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 189

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80
```

Glu Asp Ile Ala Thr Tyr Tyr Cys Glu Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 190
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 190

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 191
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 191

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Lys Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 192
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 192

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

```
Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80


Glu Asp Ile Ala Thr Tyr Tyr Cys Pro Gln Ser Asn Thr His Pro Arg
                85                  90                  95


Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105


<210>  193
<211>  108
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  193

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15


Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30


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


Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60


Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80


Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Thr His Pro Arg
                85                  90                  95


Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105


<210>  194
<211>  108
```

<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 194

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Ser Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 195
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 195

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

```
Val Asp Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Ile Ala Thr Tyr Tyr Cys Val Gln Ser Asn Thr His Pro Arg
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105
```

<210> 196
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 196

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Ile Ala Thr Tyr Tyr Cys Met Asp Ser Asn Thr His Pro Arg
                85                  90                  95
```

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 197
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 197

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
20 25 30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Lys Tyr Gln Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 198
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 198

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Gln Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 199
<211> 30
<212> PRT
<213> Homo sapiens

<400> 199

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser
20 25 30

<210> 200
<211> 7
<212> PRT
<213> Homo sapiens

<400> 200

Ser Ser Ser Tyr Tyr Trp Ser
1 5

<210> 201
<211> 14
<212> PRT
<213> Homo sapiens

<400> 201

Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu Trp Ile Gly
1   5   10

<210> 202
<211> 16
<212> PRT
<213> Homo sapiens

<400> 202

Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys Ser
1   5   10   15

<210> 203
<211> 32
<212> PRT
<213> Homo sapiens

<400> 203

Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile Ser Leu Arg
1   5   10   15

Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 204
<211> 11
<212> PRT
<213> Homo sapiens

<400> 204

Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val
1   5   10

<210> 205
<211> 11
<212> PRT
<213> Homo sapiens

<400> 205

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 206
<211> 30
<212> PRT
<213> Homo sapiens

<400> 206

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser
20 25 30

<210> 207
<211> 7
<212> PRT
<213> Homo sapiens

<400> 207

Ser Gly Ser Tyr Tyr Trp Ser
1 5

<210> 208
<211> 14
<212> PRT
<213> Homo sapiens

<400> 208

Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 209
<211> 32
<212> PRT
<213> Homo sapiens

<400> 209

Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys
1 5 10 15

Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 210
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 210

Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Ile Ser Leu Arg
1 5 10 15

Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 211
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 211

Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 212
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 212

Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile Ser Leu Arg
1 5 10 15

Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 213
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 213

Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys
1   5   10   15

Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 214
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 214

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

Thr Leu Ser Leu Thr Cys Lys Val Ser Gly Gly Ser Ile Ser
            20   25   30

<210> 215
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 215

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser
            20   25   30

<210> 216
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 216

Arg Val Thr Ile Ser Arg Asp Thr Leu Lys Asn Gln Ile Ser Leu Arg
1 5 10 15

Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 217
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 217

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser
20 25 30

<210> 218
<211> 32
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<220>
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<400> 218

Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile Ser Leu Arg
1 5 10 15

Leu Thr Ser Val Arg Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 219
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<400> 219

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

Thr Leu Lys Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser
20 25 30

<210> 220
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 220

Val Gly Gly Ala Gly Gly Trp Pro Leu Glu Val
1 5 10

<210> 221
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 221

Arg Val Thr Ile Ser Val Asp Lys Leu Lys Asn Gln Ile Ser Leu Arg
1 5 10 15

Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 222
<211> 11
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<220>
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<400> 222

Val Gly Gly Ala Gly Gly Trp Pro Leu Asp Val
1 5 10

<210> 223
<211> 11
<212> PRT
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<400> 223

Val Gly Gly Ala Gly Gly Trp Pro Met Glu Val
1 5 10

<210> 224
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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<400> 224

Ser Gly Ser Tyr Tyr Trp Ser
1 5

<210> 225
<211> 32
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<213> Artificial Sequence

<220>
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<400> 225

Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Phe Ser Leu Arg
1 5 10 15

Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg

20 25 30

<210> 226
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 226

Arg Val Thr Ile Ser Val Asp Thr Leu Lys Asn Gln Ile Ser Leu Lys
1 5 10 15

Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 227
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<400> 227

Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys
1 5 10 15

Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 228
<211> 11
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<220>
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<400> 228

Val Gly Gly Ala Gly Gly Trp Pro Leu Asp Val
1 5 10

<210> 229

<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 229

Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 230
<211> 32
<212> PRT
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<220>
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<400> 230

Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys
1 5 10 15

Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 231
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<220>
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<400> 231

Val Gly Gly Ala Gly Gly Trp Pro Met Asp Val
1 5 10

<210> 232
<211> 22
<212> PRT
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<220>
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<400> 232

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

Ser Ala Arg Leu Thr Cys
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<210> 233
<211> 14
<212> PRT
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<400> 233

Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr Tyr Asn Ile Tyr
1 5 10

<210> 234
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 234

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu Leu Tyr
1 5 10 15

<210> 235
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 235

Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser
1 5 10

<210> 236
<211> 34
<212> PRT

<213> Artificial Sequence

<220>
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<400> 236

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr
20 25 30

Tyr Cys

<210> 237
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 237

Met Thr Trp Ser Ser Asn Gly Ser Gly Val
1 5 10

<210> 238
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 238

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Gly
1 5 10

<210> 239
<211> 22
<212> PRT
<213> Homo sapiens

<400> 239

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

Ser Ala Arg Leu Thr Cys
            20

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

<400> 240

Thr Leu Pro Ser Asp Ile Asn Val Gly Ser Tyr Asn Ile Tyr
1   5   10

<210> 241
<211> 11
<212> PRT
<213> Homo sapiens

<400> 241

Tyr Tyr Ser Asp Ser Asp Lys Gly Gln Gly Ser
1   5   10

<210> 242
<211> 34
<212> PRT
<213> Homo sapiens

<400> 242

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Thr
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr
            20   25   30

Tyr Cys

<210> 243
<211> 8
<212> PRT
<213> Homo sapiens

<400> 243

Met Ile Trp Pro Ser Asn Ala Ser
1 5

<210> 244
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 244

Met Thr Trp Ser Ser Gln Gly Ser Gly Val
1 5 10

<210> 245
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 245

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Ala Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr
20 25 30

Tyr Cys

<210> 246
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 246

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu Leu Arg
1 5 10 15

<210> 247
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 247

Gln Ala Val Leu Thr Gln Pro Ala Ser Leu Ser Ala Ser Pro Gly Ala
1 5 10 15

Ser Ala Arg Leu Thr Cys
20

<210> 248
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 248

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu Leu Arg
1 5 10 15

<210> 249
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 249

Tyr Arg Ser Asp Ser His Lys Gly Gln Gly Ser
1 5 10

<210> 250
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Completely synthesized.

<400> 250

Thr Leu Pro Ser Gly Ile Asn Val Arg Tyr Tyr Asn Ile Tyr
1 5 10

<210> 251
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 251

Met Thr Trp Ser Ser Asn Gly Ala Gly Val
1 5 10

<210> 252
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 252

Thr Leu Pro Ser Asp Ile Asn Val Arg Tyr Tyr Arg Ile Tyr
1 5 10

<210> 253
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 253

Tyr Arg Ser Asp Ser His Lys Gly Gln Gly Ser
1 5 10

<210> 254
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 254

Met Thr Trp Ser Ser Thr Gly Ser Gly Val
1   5   10

<210> 255
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 255

Thr Leu Arg Ser Asp Ile Asn Val Arg Tyr Tyr Asn Ile Tyr
1   5   10

<210> 256
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 256

Met Thr Trp Ser Ser Asn Pro Ser Gly Val
1   5   10

<210> 257
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 257

Ile Thr Trp Ser Ser Asn Gly Ser Gly Val
1   5   10

<210> 258
<211> 10

<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 258

Leu Thr Trp Ser Ser Asn Gly Ser Gly Val
1   5   10

<210> 259
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 259

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

Ser Ala Arg Leu Thr Cys
            20

<210> 260
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
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<400> 260

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

Ser Ala Arg Leu Thr Cys
            20

<210> 261
<211> 22
<212> PRT
<213> Artificial Sequence

<220>

<223> Completely synthesized.

<400> 261

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

Ser Ala Arg Leu Thr Cys
20

<210> 262
<211> 14
<212> PRT
<213> Synthetic

<400> 262

Thr Leu Pro Ser Asp Ile Asn Val Gly Tyr Tyr Asn Ile Tyr
1 5 10

<210> 263
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 263

Thr Leu Pro Ser Asp Ile Asn Val Arg Ser Tyr Asn Ile Tyr
1 5 10

<210> 264
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 264

Tyr Tyr Ser Asp Ser Asp Lys Gly Gln Gly Ser
1 5 10

<210> 265
<211> 34
<212> PRT

<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 265

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr
20 25 30

Tyr Cys

<210> 266
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 266

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Ala Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr
20 25 30

Tyr Cys

<210> 267
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 267

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Thr
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr
            20   25   30

Tyr Cys

<210> 268
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 268

Met Ile Trp Ser Ser Asn Gly Ser Gly Val
1   5   10

<210> 269
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 269

Met Thr Trp Pro Ser Asn Gly Ser Gly Val
1   5   10

<210> 270
<211> 10
<212> PRT
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<220>
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<400> 270

Met Thr Trp Ser Ser Asn Ala Ser Gly Val
1   5   10

<210> 271
<211> 34
<212> PRT

<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 271

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 272
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 272

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 273
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 273

Leu Thr Trp Ser Ser Asn Gly Ser Gly Val
1 5 10

<210> 274
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 274

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 275
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 275

Met Thr Trp Ser Ser Asn Gly Ser Gly Val
1   5   10

<210> 276
<211> 34
<212> PRT
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<400> 276

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Thr Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 277
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 277

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gly Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 278
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 278

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr His Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 279
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 279

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Lys Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 280
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 280

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Pro Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 281
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 281

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Glu Leu Tyr
1 5 10 15

<210> 282
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 282

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 283
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 283

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Gly Leu Tyr
1   5   10   15

<210> 284
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 284

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 285
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 285

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Asn Leu Tyr
1 5 10 15

<210> 286
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 286

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 287
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 287

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Pro Leu Tyr
1 5 10 15

<210> 288
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 288

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 289
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 289

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Ser Leu Tyr
1   5   10   15

<210> 290
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 290

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 291
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 291

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu Glu Tyr
1 5 10 15

<210> 292
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 292

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 293
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 293

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu Pro Tyr
1 5 10 15

<210> 294
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 294

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 295
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 295

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu Leu Glu
1   5   10   15

<210> 296
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 296

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 297
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 297

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu Leu Gln
1 5 10 15

<210> 298
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 298

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 299
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 299

Pro Tyr Ser Asp Ser His Lys Gly Gln Gly Ser
1 5 10

<210> 300
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 300

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 301
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 301

Asn Tyr Ser Asp Ser His Lys Gly Gln Gly Ser
1   5   10

<210> 302
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 302

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 303
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 303

Thr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser
1 5 10

<210> 304
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 304

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 305
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 305

Tyr Asp Ser Asp Ser His Lys Gly Gln Gly Ser
1 5 10

<210> 306
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 306

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 307
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 307

Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser
1   5   10

<210> 308
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 308

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 309
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 309

Tyr Tyr His Asp Ser His Lys Gly Gln Gly Ser
1 5 10

<210> 310
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 310

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 311
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 311

Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser
1 5 10

<210> 312
<211> 34
<212> PRT
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<220>
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<400> 312

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

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<400> 313

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

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1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 315
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<400> 315

Tyr Tyr Ser Asp Ser Pro Lys Gly Gln Gly Ser
1 5 10

<210> 316
<211> 34
<212> PRT
<213> Artificial Sequence

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<400> 316

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 317
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<400> 317

Tyr Tyr Ser Asp Ser His Asp Gly Gln Gly Ser
1 5 10

<210> 318
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1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

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<400> 319

Thr Leu Pro Ser Asp Ile Asn Val Gly Ser Tyr Asn Ile Tyr
1   5   10

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1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

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<400> 321

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1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

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1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

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1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

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1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

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20 25 30

Tyr Cys

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1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 344
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<210> 346
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<400> 347

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Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

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Leu Thr Trp Ser Ser Glu Gly Ser Gly Val
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<400> 351

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Asn Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

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Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser
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1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 356
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<400> 356

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val
1 5 10

<210> 357
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Thr Leu Pro Ser Asp Ile Asn Val Gly Ser Tyr Asn Ile Tyr
1 5 10

<210> 358
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<400> 358

Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser
1   5   10

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Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser
1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

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<400> 360

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val
1   5   10

<210> 361
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1 5 10

<210> 362
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1 5 10

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<400> 363

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1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 364
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<400> 364

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val
1 5 10

<210> 365
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<400> 365

Thr Leu Pro Ser Asp Ile Asn Val Gly Ser Tyr Asn Ile Tyr
1 5 10

<210> 366
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<400> 366

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1 5 10

<210> 367
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<400> 367

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1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 368
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Leu Thr Trp Ser Ser Gln Gly Ser Gly Val
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1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 372
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1   5   10

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1   5   10

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1   5   10

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1   5   10   15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
            20   25   30

Tyr Cys

<210> 376
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1   5   10

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1   5   10

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1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 380
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<212> PRT
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<220>
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<400> 380

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1 5 10

<210> 381
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<210> 382
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Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 384
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<400> 384

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val
1 5 10

<210> 385
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1 5 10

<210> 386
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Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser
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<210> 387
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<213> Artificial Sequence

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<400> 387

Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Gln Ser
1 5 10 15

Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr
20 25 30

Tyr Cys

<210> 388
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<220>

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<400> 388

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val
1 5 10

<210> 389
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<212> PRT
<213> Rattus norvegicus

<400> 389

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

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 390
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<212> PRT
<213> Rattus norvegicus

<400> 390

Asp Tyr Ile Met His
1 5

<210> 391
<211> 14
<212> PRT
<213> Rattus norvegicus

<400> 391

Trp Val Lys Gln Ser Pro Gly Gln Gly Leu Glu Trp Ile Gly
1 5 10

<210> 392
<211> 17
<212> PRT
<213> Rattus norvegicus

<400> 392

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Glu Lys Phe Lys
1 5 10 15

Lys

<210> 393
<211> 32
<212> PRT
<213> Rattus norvegicus

<400> 393

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

Leu Ser Ser Leu Ala Ser Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg
            20   25   30

<210> 394
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 394

Ser Ala His Thr Thr Gly Phe Gly Phe Ala Tyr
1   5   10

<210> 395
<211> 11
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<213> Rattus norvegicus

<400> 395

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1   5   10

<210> 396
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<400> 396

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

1 5 10 15

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 397
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 397

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<210> 398
<211> 17
<212> PRT
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<400> 398

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Glu Lys Phe Gln
1 5 10 15

Gly

<210> 399
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 399

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 400
<211> 30
<212> PRT
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<220>
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<400> 400

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 401
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 401

Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

<210> 402
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 402

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Glu Lys Phe Gln
1 5 10 15

Gly

<210> 403
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 403

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1   5   10   15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 404
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<400> 404

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 405
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 405

Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
1   5   10

<210> 406
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 406

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Leu Gln
1 5 10 15

Gly

<210> 407
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 407

Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
1 5 10 15

Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 408
<211> 30
<212> PRT
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<220>
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<400> 408

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 409
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 409

Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
1 5 10

<210> 410
<211> 17
<212> PRT
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<220>
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<400> 410

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Leu Gln
1 5 10 15

Gly

<210> 411
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 411

Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
1 5 10 15

Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 412
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<400> 412

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
            20   25   30

<210> 413
<211> 14
<212> PRT
<213> Artificial Sequence

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<400> 413

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

<210> 414
<211> 17
<212> PRT
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<400> 414

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe Gln
1   5   10   15

Gly

<210> 415
<211> 32
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<400> 415

Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1   5   10   15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 416
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<213> Artificial Sequence

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<400> 416

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
20 25 30

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<400> 417

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

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<213> Artificial Sequence

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<400> 418

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 419
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 419

Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1   5   10   15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 420
<211> 30
<212> PRT
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<400> 420

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 421
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<213> Artificial Sequence

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<400> 421

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

<210> 422
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<220>

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<400> 422

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 423
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<400> 423

Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 424
<211> 30
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<213> Artificial Sequence

<220>
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<400> 424

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
20 25 30

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<400> 425

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

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<220>
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<400> 426

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe Gln
1   5   10   15

Gly

<210> 427
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<212> PRT
<213> Artificial Sequence

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<400> 427

Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1   5   10   15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 428
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<400> 428

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

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<400> 429

Trp Val Arg Gln Ala Pro Gly Gln Ala Leu Glu Trp Met Gly
1 5 10

<210> 430
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<400> 430

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe Gln
1 5 10 15

Asp

<210> 431
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<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 431

Arg Val Thr Ile Thr Arg Asp Arg Ser Met Ser Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala Arg
20 25 30

<210> 432
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 432

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 433
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<213> Artificial Sequence

<220>
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<400> 433

Trp Val Arg Gln Ala Pro Gly Gln Ala Leu Glu Trp Met Gly
1 5 10

<210> 434
<211> 17
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<213> Artificial Sequence

<220>
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<400> 434

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Tyr Ala Gln Lys Phe Gln
1 5 10 15

Asp

<210> 435
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 435

Arg Val Thr Ile Thr Ala Asp Arg Ser Met Ser Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala Arg
20 25 30

<210> 436
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 436

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

Glu Thr Val Thr Ile Glu Cys
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<210> 437
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 437

Arg Ala Ser Glu Asp Ile Tyr Ser Asn Leu Ala
1 5 10

<210> 438
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 438

Trp Tyr Gln Gln Lys Pro Gly Asn Ser Pro Gln Leu Leu Ile Tyr
1   5   10   15

<210> 439
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 439

Asp Ala Asn Ser Leu Ala Asp
1   5

<210> 440
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 440

Gly Val Pro Ser Arg Phe Ser Ala Ser Gly Ser Gly Thr Gln Phe Ser
1   5   10   15

Leu Lys Ile Asn Ser Leu Arg Ser Glu Asp Val Ala Ser Tyr Phe Cys
            20   25   30

<210> 441
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 441

Gln Gln Tyr Asn Asn Tyr Pro Tyr Thr
1   5

<210> 442
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<220>
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<400> 442

Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg
1   5   10

<210> 443
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<212> PRT
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<220>
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<400> 443

Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1   5   10   15

Asp Arg Val Thr Ile Thr Cys
            20

<210> 444
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<400> 444

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1   5   10   15

<210> 445
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<400> 445

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 446
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<212> PRT
<213> Artificial Sequence

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<400> 446

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
1 5 10

<210> 447
<211> 23
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<220>
<223> Completely synthesized.

<400> 447

Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys
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<210> 448
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<220>
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<400> 448

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 449
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<220>
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<400> 449

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 450
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<212> PRT
<213> Artificial Sequence

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<400> 450

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
1 5 10

<210> 451
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<400> 451

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys
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<210> 452
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<400> 452

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 453
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<400> 453

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 454
<211> 11
<212> PRT
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<400> 454

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
1 5 10

<210> 455
<211> 23
<212> PRT
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<400> 455

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

Asp Arg Val Thr Ile Thr Cys
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<210> 456
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<400> 456

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 457
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<212> PRT
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<400> 457

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 458
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<212> PRT
<213> Artificial Sequence

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<400> 458

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
1 5 10

<210> 459
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 459

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Glu Asp Arg Thr Ile Thr Cys
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<210> 460
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 460

Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile Tyr
1 5 10 15

<210> 461
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 461

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 462
<211> 11

<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 462

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
1   5   10

<210> 463
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 463

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

Glu Arg Ala Thr Leu Ser Cys
            20

<210> 464
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 464

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
1   5   10   15

<210> 465
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 465

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Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1               5                   10                  15


Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys
            20                  25                  30


<210>  466
<211>  30
<212>  PRT
<213>  Rattus norvegicus

<400>  466

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


Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr
            20                  25                  30


<210>  467
<211>  17
<212>  PRT
<213>  Rattus norvegicus

<400>  467

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Glu Lys Phe Lys
1               5                   10                  15


Lys



<210>  468
<211>  32
<212>  PRT
<213>  Rattus norvegicus

<400>  468

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


Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg
            20                  25                  30


<210>  469
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<211> 14
<212> PRT
<213> Rattus norvegicus

<400> 469

Val Ala Ile Ile Thr Thr Val Ala Ser Gly Gly Phe Ala Tyr
1 5 10

<210> 470
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 470

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 471
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 471

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Glu Lys Phe Gln
1 5 10 15

Gly

<210> 472
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 472

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Ile Phe Thr
20 25 30

<210> 473
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 473

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Glu Lys Phe Gln
1 5 10 15

Gly

<210> 474
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 474

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 475
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 475

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Glu Lys Phe Gln
1 5 10 15

Gly

<210> 476
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 476

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 477
<211> 17
<212> PRT
<213> Synthetic

<400> 477

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Leu Gln
1 5 10 15

Gly

<210> 478
<211> 30
<212> PRT
<213> Synthetic

<400> 478

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 479
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 479

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Leu Gln
1   5   10   15

Gly

<210> 480
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 480

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
            20   25   30

<210> 481
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 481

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe Gln
1   5   10   15

Gly

<210> 482
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 482

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
20 25 30

<210> 483
<211> 17
<212> PRT
<213> Synthetic

<400> 483

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 484
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 484

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
20 25 30

<210> 485
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 485

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe Gln
1   5   10   15

Gly

<210> 486
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 486

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1   5   10   15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 487
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 487

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe Gln
1   5   10   15

Asp

<210> 488
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 488

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 489
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 489

Trp Ile Asp Pro Glu Tyr Gly Ser Thr Asp Tyr Ala Gln Lys Phe Gln
1 5 10 15

Asp

<210> 490
<211> 23
<212> PRT
<213> Rattus norvegicus

<400> 490

Asp Ile Val Met Thr Gln Gly Ala Leu Pro Asn Pro Val Pro Ser Gly
1 5 10 15

Glu Ser Ala Ser Ile Thr Cys
20

<210> 491
<211> 16

<212> PRT
<213> Rattus norvegicus

<400> 491

Gln Ser Ser Glu Ser Leu Leu His Ser Asn Gly Lys Thr Tyr Leu Asn
1 5 10 15

<210> 492
<211> 15
<212> PRT
<213> Rattus norvegicus

<400> 492

Trp Tyr Leu Gln Arg Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr
1 5 10 15

<210> 493
<211> 7
<212> PRT
<213> Rattus norvegicus

<400> 493

Trp Met Ser Thr Arg Ala Ala
1 5

<210> 494
<211> 32
<212> PRT
<213> Rattus norvegicus

<400> 494

Gly Val Ser Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

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

<210> 495
<211> 9
<212> PRT
<213> Rattus norvegicus

<400> 495

Gln Gln Phe Leu Glu Tyr Pro Pro Thr

1 5

<210> 496
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 496

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
1 5 10

<210> 497
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 497

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

Gln Pro Ala Ser Ile Ser Cys
20

<210> 498
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 498

Trp Leu Gln Gln Arg Pro Gly Gln Pro Pro Arg Leu Leu Ile Tyr
1 5 10 15

<210> 499
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 499

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ala Gly Thr Asp Phe Thr
1 5 10 15

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
20 25 30

<210> 500
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 500

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
1 5 10

<210> 501
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 501

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

Glu Pro Ala Ser Ile Ser Cys
20

<210> 502
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 502

Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr
1 5 10 15

<210> 503
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 503

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
20 25 30

<210> 504
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 504

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
1 5 10

<210> 505
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 505

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

Gln Pro Ala Ser Ile Ser Cys
20

<210> 506
<211> 15

<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 506

Trp Tyr Leu Gln Lys Pro Gly Gln Pro Pro Gln Leu Leu Ile Tyr
1   5   10   15

<210> 507
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 507

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1   5   10   15

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
            20   25   30

<210> 508
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 508

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
1   5   10

<210> 509
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 509

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
1 5 10 15

Gln Pro Ala Ser Ile Ser Cys
20

<210> 510
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 510

Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile Tyr
1 5 10 15

<210> 511
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 511

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
20 25 30

<210> 512
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 512

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
1 5 10

<210> 513
<211> 30
<212> PRT
<213> Rattus norvegicus

<400> 513

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 514
<211> 5
<212> PRT
<213> Rattus norvegicus

<400> 514

Asp Ser Val Met Asn
1 5

<210> 515
<211> 14
<212> PRT
<213> Rattus norvegicus

<400> 515

Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

<210> 516
<211> 17
<212> PRT
<213> Rattus norvegicus

<400> 516

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe Gln
1 5 10 15

Gly

<210> 517
<211> 32

<212> PRT
<213> Rattus norvegicus

<400> 517

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 518
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 518

Thr Lys Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr
1 5 10

<210> 519
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 519

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 520
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 520

Trp Val Gln Gln Glu Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

<210> 521
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 521

Trp Val Gln Gln Gly Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

<210> 522
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 522

Trp Val Gln Gln His Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

<210> 523
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 523

Trp Val Gln Gln Gln Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

<210> 524
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 524

Trp Val Gln Gln Ser Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

<210> 525
<211> 14
<212> PRT

<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 525

Trp Val Gln Gln Val Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

<210> 526
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 526

Asp Ser Val Met Glu
1 5

<210> 527
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 527

Asp Ser Val Met Pro
1 5

<210> 528
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 528

Asp Ser Val Met Gln
1 5

<210> 529

<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 529

Asp Ser Val Met Ser
1 5

<210> 530
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 530

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Glu
20 25 30

<210> 531
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 531

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 532
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 532

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1   5   10   15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Pro
            20   25   30

<210> 533
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 533

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1   5   10   15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 534
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 534

Thr Gly Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr
1   5   10

<210> 535
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 535

Thr Thr Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr
1 5 10

<210> 536
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 536

Thr Lys Tyr Gln Ser Gly Tyr Gly Phe Pro Tyr
1 5 10

<210> 537
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 537

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

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 538
<211> 14
<212> PRT
<213> Synthetic

<400> 538

Trp Val Lys Gln Ser Pro Gly Gln Gly Leu Glu Trp Ile Gly
1 5 10

<210> 539
<211> 17
<212> PRT
<213> Artificial Sequence

<220>

<223> Completely synthesized.

<400> 539

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe Lys
1 5 10 15

Lys

<210> 540
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 540

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

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

<210> 541
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 541

Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser
1 5 10

<210> 542
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 542

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
20 25 30

<210> 543
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 543

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

<210> 544
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 544

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 545
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 545

Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr Met
1 5 10 15

Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala
            20   25   30

Thr

<210> 546
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 546

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1   5   10

<210> 547
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 547

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
            20   25   30

<210> 548
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 548

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

<210> 549
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 549

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 550
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 550

Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 551
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 551

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 552
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 552

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
            20   25   30

<210> 553
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 553

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

<210> 554
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 554

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe Gln
1   5   10   15

Gly

<210> 555
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 555

Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 556
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 556

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 557
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 557

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr
20 25 30

<210> 558
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 558

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

<210> 559
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 559

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 560
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 560

Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met
1 5 10 15

Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala
20 25 30

Arg

<210> 561
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 561

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 562
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 562

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 563
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 563

Trp Val Arg Gln Ala Pro Gly Gln Ala Leu Glu Trp Met Gly
1 5 10

<210> 564
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 564

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe Gln
1 5 10 15

Asp

<210> 565
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 565

Arg Val Thr Ile Thr Arg Asp Arg Ser Met Ser Thr Ala Tyr Met Glu
1   5   10   15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala Arg
            20   25   30

<210> 566
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 566

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1   5   10

<210> 567
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 567

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser
1   5   10   15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 568
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Completely synthesized.

<400> 568

Trp Val Arg Gln Ala Pro Gly Gln Ala Leu Glu Trp Met Gly
1 5 10

<210> 569
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 569

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe Gln
1 5 10 15

Asp

<210> 570
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 570

Arg Val Thr Ile Thr Ala Asp Arg Ser Met Ser Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala Arg
20 25 30

<210> 571
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 571

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 572
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 572

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 573
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 573

Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

<210> 574
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 574

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe Gln
1 5 10 15

Gly

<210> 575
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 575

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 576
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 576

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 577
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 577

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 578
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 578

Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1   5   10

<210> 579
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 579

Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe Gln
1   5   10   15

Gly

<210> 580
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 580

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr Met Glu
1   5   10   15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 581
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 581

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 582
<211> 23
<212> PRT
<213> Rattus norvegicus

<400> 582

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys
20

<210> 583
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 583

Lys Ala Ser Gln Asn Val Asp Ser Asp Val Asp
1 5 10

<210> 584
<211> 15
<212> PRT
<213> Rattus norvegicus

<400> 584

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 585
<211> 7
<212> PRT
<213> Rattus norvegicus

<400> 585

Lys Ala Ser Asn Arg Tyr Thr
1 5

<210> 586
<211> 32
<212> PRT
<213> Rattus norvegicus

<400> 586

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1   5   10   15

Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys
            20   25   30

<210> 587
<211> 9
<212> PRT
<213> Rattus norvegicus

<400> 587

Met Gln Ser Asn Thr His Pro Arg Thr
1   5

<210> 588
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 588

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1   5   10

<210> 589
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 589

Pro Ala Ser Gln Asn Val Asp Ser Asp Val Asp
1   5   10

<210> 590
<211> 11
<212> PRT

<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 590

Gln Ala Ser Gln Asn Val Asp Ser Asp Val Asp
1 5 10

<210> 591
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 591

Lys Ala Ser Asn Asp Tyr Thr
1 5

<210> 592
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 592

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Asp Tyr
1 5 10 15

<210> 593
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 593

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Glu
1 5 10 15

<210> 594

<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 594

Ala Gln Ser Asn Thr His Pro Arg Thr
1 5

<210> 595
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 595

Glu Gln Ser Asn Thr His Pro Arg Thr
1 5

<210> 596
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 596

His Gln Ser Asn Thr His Pro Arg Thr
1 5

<210> 597
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 597

Lys Gln Ser Asn Thr His Pro Arg Thr
1 5

<210> 598
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 598

Pro Gln Ser Asn Thr His Pro Arg Thr
1   5

<210> 599
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 599

Gln Gln Ser Asn Thr His Pro Arg Thr
1   5

<210> 600
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 600

Ser Gln Ser Asn Thr His Pro Arg Thr
1   5

<210> 601
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 601

Val Gln Ser Asn Thr His Pro Arg Thr

1 5

<210> 602
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 602

Met Asp Ser Asn Thr His Pro Arg Thr
1 5

<210> 603
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 603

Met Gln Glu Asn Thr His Pro Arg Thr
1 5

<210> 604
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 604

Met Gln Ser Thr Thr His Pro Arg Thr
1 5

<210> 605
<211> 7
<212> PRT
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<220>
<223> Completely synthesized.

<400> 605

Lys Ala Ser Gln Arg Tyr Thr
1 5

<210> 606
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 606

Met Gln Ser Gln Thr His Pro Arg Thr
1 5

<210> 607
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 607

Asp Ile Val Met Thr Gln Ser Pro Thr Ser Ile Ser Ile Ser Val Gly
1 5 10 15

Glu Arg Val Thr Met Asn Cys
20

<210> 608
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 608

Lys Ala Ser Gln Asn Val Asp Ser Asp Val Asp
1 5 10

<210> 609
<211> 15
<212> PRT

<213> Artificial Sequence

<220>
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<400> 609

Trp Tyr Gln Gln Lys Thr Gly Gln Ser Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 610
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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<400> 610

Lys Ala Ser Asn Arg Tyr Thr
1 5

<210> 611
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 611

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Phe Thr Ile Ser Asn Met Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys
20 25 30

<210> 612
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 612

Met Gln Ser Asn Thr His Pro Arg Thr

1 5

<210> 613
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 613

Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys Arg
1 5 10

<210> 614
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 614

Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys
20

<210> 615
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 615

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 616
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 616

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1   5   10   15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
            20   25   30

<210> 617
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 617

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1   5   10

<210> 618
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 618

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1   5   10   15

Asp Arg Val Thr Ile Thr Cys
            20

<210> 619
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 619

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 620
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 620

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 621
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 621

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1 5 10

<210> 622
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 622

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

Asp Arg Val Thr Ile Thr Cys
20

<210> 623
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 623

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 624
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 624

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 625
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 625

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1 5 10

<210> 626
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 626

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys
20

<210> 627
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 627

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 628
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 628

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys
20 25 30

<210> 629
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 629

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg

1 5 10

<210> 630
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 630

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

Glu Arg Ala Thr Leu Ser Cys
20

<210> 631
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 631

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
1 5 10 15

<210> 632
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 632

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
20 25 30

<210> 633

<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 633

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1 5 10

<210> 634
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 634

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

Glu Arg Ala Thr Leu Ser Cys
20

<210> 635
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 635

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
1 5 10 15

<210> 636
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 636

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1   5   10   15

Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys
            20   25   30

<210> 637
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 637

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1   5   10

<210> 638
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 638

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
1   5   10   15

Glu Lys Val Thr Ile Thr Cys
            20

<210> 639
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 639

Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys
1   5   10   15

<210> 640
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 640

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 641
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 641

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1 5 10

<210> 642
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 642

Gly Gly Gly Gly Ser
1 5

<210> 643
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 643

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 644
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 644

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 645
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 645

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser
20

<210> 646
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 646

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser

20 25

<210> 647
<211> 188
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 647

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Leu Pro Gln Thr His Ser Leu
20 25 30

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
35 40 45

Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
50 55 60

Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
65 70 75 80

Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Met Asp Ser Ser
85 90 95

Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
100 105 110

Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
115 120 125

Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
130 135 140

Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
145 150 155 160

Cys Ala Trp Glu Val Val Arg Asp Glu Ile Met Arg Ser Phe Ser Leu

```
                165                 170                 175

Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
            180                 185
```

<210> 648
<211> 165
<212> PRT
<213> Homo sapiens

<400> 648

```
Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr Leu Met
1               5                   10                  15

Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp
            20                  25                  30

Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln
        35                  40                  45

Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe
    50                  55                  60

Asn Leu Phe Ser Thr Met Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu
65                  70                  75                  80

Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu
                85                  90                  95

Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys
            100                 105                 110

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

Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg
    130                 135                 140

Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser
145                 150                 155                 160
```

Leu Arg Ser Lys Glu
165

<210> 649
<211> 165
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 649

Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr Leu Met
1 5 10 15

Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp
20 25 30

Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln
35 40 45

Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe
50 55 60

Asn Leu Phe Ser Thr Met Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu
65 70 75 80

Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu
85 90 95

Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys
100 105 110

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

Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg
130 135 140

Asp Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser
145 150 155 160

Leu Arg Ser Lys Glu
165

<210> 650
<211> 188
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 650

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys
1 5 10 15

Lys Ser Ser Cys Ser Val Gly Cys Asp Leu Pro Gln Thr His Ser Leu
20 25 30

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
35 40 45

Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
50 55 60

Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
65 70 75 80

Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Met Asp Ser Ser
85 90 95

Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
100 105 110

Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
115 120 125

Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
130 135 140

Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
145 150 155 160

```
Cys Ala Trp Glu Val Val Arg Gly Glu Ile Met Arg Ser Phe Ser Leu
                165                 170                 175


Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
            180                 185


<210>  651
<211>  165
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  651

Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr Leu Met
1               5                   10                  15


Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp
            20                  25                  30


Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln
        35                  40                  45


Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe
    50                  55                  60


Asn Leu Phe Ser Thr Met Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu
65                  70                  75                  80


Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu
                85                  90                  95


Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys
            100                 105                 110


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


Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg
    130                 135                 140
```

Gly Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser
145 150 155 160

Leu Arg Ser Lys Glu
165

<210> 652
<211> 492
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 652

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
130 135 140

```
Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
            260                 265                 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
        275                 280                 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
    290                 295                 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305                 310                 315                 320

Leu Ser Leu Ser Leu Gly Lys Cys Asp Leu Pro Gln Thr His Ser Leu
                325                 330                 335

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
            340                 345                 350

Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
        355                 360                 365
```

```
Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
    370                 375                 380

Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
385                 390                 395                 400

Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
                405                 410                 415

Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
            420                 425                 430

Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
        435                 440                 445

Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
    450                 455                 460

Cys Ala Trp Glu Val Val Arg Asp Glu Ile Met Arg Ser Phe Ser Leu
465                 470                 475                 480

Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
                485                 490
```

<210> 653
<211> 492
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 653

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1               5                   10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45
```

```
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65                  70                  75                  80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
            100                 105                 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
        115                 120                 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
    130                 135                 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255
```

```
Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
            260                 265                 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
        275                 280                 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
    290                 295                 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305                 310                 315                 320

Leu Ser Leu Ser Leu Gly Lys Cys Asp Leu Pro Gln Thr His Ser Leu
                325                 330                 335

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
            340                 345                 350

Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
        355                 360                 365

Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
    370                 375                 380

Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
385                 390                 395                 400

Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
                405                 410                 415

Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
            420                 425                 430

Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
        435                 440                 445

Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
    450                 455                 460

Cys Ala Trp Glu Val Val Arg Gly Glu Ile Met Arg Ser Phe Ser Leu
465                 470                 475                 480
```

Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
485 490

<210> 654
<211> 492
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 654

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145 150 155 160

```
Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
            260                 265                 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
        275                 280                 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
    290                 295                 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305                 310                 315                 320

Leu Ser Leu Ser Leu Gly Lys Cys Asp Leu Pro Gln Thr His Ser Leu
                325                 330                 335

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
            340                 345                 350

Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
        355                 360                 365
```

```
Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
    370                 375                 380

Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
385                 390                 395                 400

Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
                405                 410                 415

Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
            420                 425                 430

Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
        435                 440                 445

Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
    450                 455                 460

Cys Ala Trp Glu Val Val Arg Gly Glu Ile Met Arg Ser Phe Ser Leu
465                 470                 475                 480

Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
                485                 490
```

<210> 655
<211> 495
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 655

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                   10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45
```

```
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225                 230                 235                 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270
```

```
Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Cys Asp Leu Pro Gln Thr
                325                 330                 335

His Ser Leu Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg
            340                 345                 350

Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe
        355                 360                 365

Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro
    370                 375                 380

Val Leu His Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys
385                 390                 395                 400

Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr
                405                 410                 415

Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly
            420                 425                 430

Val Gly Val Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala
        435                 440                 445

Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys
    450                 455                 460

Tyr Ser Pro Cys Ala Trp Glu Val Val Arg Gly Glu Ile Met Arg Ser
465                 470                 475                 480
```

Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
485 490 495

<210> 656
<211> 495
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 656

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

```
Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225                 230                 235                 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Cys Asp Leu Pro Gln Thr
                325                 330                 335

His Ser Leu Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg
            340                 345                 350

Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe
        355                 360                 365

Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro
    370                 375                 380
```

```
Val Leu His Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys
385                 390                 395                 400


Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr
                405                 410                 415


Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly
            420                 425                 430


Val Gly Val Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala
        435                 440                 445


Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys
    450                 455                 460


Tyr Ser Pro Cys Ala Trp Glu Val Val Arg Asp Glu Ile Met Arg Ser
465                 470                 475                 480


Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
                485                 490                 495


<210>  657
<211>  495
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  657

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                   10                  15


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


Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45


Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60
```

```
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225                 230                 235                 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270
```

```
Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Cys Asp Leu Pro Gln Thr
                325                 330                 335

His Ser Leu Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg
            340                 345                 350

Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe
        355                 360                 365

Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro
    370                 375                 380

Val Leu His Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys
385                 390                 395                 400

Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr
                405                 410                 415

Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly
            420                 425                 430

Val Gly Val Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala
        435                 440                 445

Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys
    450                 455                 460

Tyr Ser Pro Cys Ala Trp Glu Val Val Arg Gly Glu Ile Met Arg Ser
465                 470                 475                 480

Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
                485                 490                 495
```

<210> 658
<211> 492
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 658

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1               5                   10                  15


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


Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45


Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60


Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65                  70                  75                  80


Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95


Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
            100                 105                 110


Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
        115                 120                 125


Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val Thr Cys Val Val Val
    130                 135                 140


Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160


Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175
```

```
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
            260                 265                 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
        275                 280                 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
    290                 295                 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305                 310                 315                 320

Leu Ser Leu Ser Leu Gly Lys Cys Asp Leu Pro Gln Thr His Ser Leu
                325                 330                 335

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
            340                 345                 350

Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
        355                 360                 365

Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
    370                 375                 380
```

```
Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
385                 390                 395                 400


Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
                405                 410                 415


Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
            420                 425                 430


Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
        435                 440                 445


Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
    450                 455                 460


Cys Ala Trp Glu Val Val Arg Asp Glu Ile Met Arg Ser Phe Ser Leu
465                 470                 475                 480


Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
                485                 490


<210>  659
<211>  121
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized


<220>
<221>  Variant
<222>  (42)..(42)
<223>  X = His or Pro

<220>
<221>  Variant
<222>  (76)..(76)
<223>  X = Ser or Leu

<220>
<221>  Variant
<222>  (80)..(80)
<223>  X = Phe or Ile

<220>
<221>  Variant
```

<222> (83)..(83)
<223> X = Lys or Arg

<220>
<221> Variant
<222> (85)..(85)
<223> X = Ser or Thr

<220>
<221> Variant
<222> (108)..(108)
<223> X = Leu or Met

<400> 659

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
20 25 30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln Xaa Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Xaa Lys Asn Gln Xaa
65 70 75 80

Ser Leu Xaa Leu Xaa Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Val Gly Gly Ala Gly Gly Trp Pro Xaa Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 660
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 660

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35   40   45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50   55   60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Thr Ser Gly Ile
65   70   75   80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85   90   95

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100   105   110

Leu Thr Val Leu Gly
        115

<210> 661
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 661

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20   25   30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr

```
        35                  40                  45

Leu Leu Tyr Tyr Tyr Glu Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Thr Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115


<210>  662
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized.

<400>  662

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Thr Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
```

85 90 95

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 663
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 663

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Gln Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Thr Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 664

<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<220>
<221> Variant
<222> (31)..(31)
<223> X = Arg or Gly

<220>
<221> Variant
<222> (32)..(32)
<223> X = Tyr or Ser

<220>
<221> Variant
<222> (54)..(54)
<223> X = Ser or Glu or Gln

<220>
<221> Variant
<222> (77)..(77)
<223> X = Asn or Thr

<220>
<221> Variant
<222> (97)..(97)
<223> X = Met or Leu

<220>
<221> Variant
<222> (102)..(102)
<223> X = Asn or Gln or Glu

<400> 664

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


Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Xaa Xaa
            20                  25                  30


Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45


Leu Leu Tyr Tyr Tyr Xaa Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60
```

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Xaa Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Xaa Thr Trp Ser Ser Xaa Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 665
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<220>
<221> Variant
<222> (1)..(1)
<223> X= Glu or Gln

<220>
<221> Variant
<222> (17)..(17)
<223> X= Thr or Ser

<220>
<221> Variant
<222> (20)..(20)
<223> X= Ile or Val

<220>
<221> Variant
<222> (29)..(29)
<223> X= Phe or Leu

<220>
<221> Variant
<222> (38)..(38)
<223> X= Gln or Arg

<220>
<221> Variant

<222> (40)..(40)
<223> X=Glu or Gly or His or Ala

<220>
<221> Variant
<222> (62)..(62)
<223> X=Glu or Gln

<220>
<221> Variant
<222> (70)..(70)
<223> X=Ile or Met

<220>
<221> Variant
<222> (100)..(100)
<223> X=Lys or Gly or Thr

<220>
<221> Variant
<222> (102)..(102)
<223> X=Asn or Gln

<400> 665

Xaa Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1   5   10   15

Xaa Val Lys Xaa Ser Cys Lys Val Ser Gly Tyr Thr Xaa Thr Asp Ser
            20   25   30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Xaa Lys Phe
    50   55   60

Gln Gly Arg Val Thr Xaa Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65   70   75   80

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

Ala Arg Thr Xaa Tyr Xaa Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100   105   110

Gly Thr Thr Val Thr Val Ser Ser

115 120

<210> 666
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<220>
<221> Variant
<222> (24)..(24)
<223> X = Lys or Gly or Gln

<220>
<221> Variant
<222> (53)..(53)
<223> X = Asn or Gln

<220>
<221> Variant
<222> (54)..(54)
<223> X = Arg or Asp

<220>
<221> Variant
<222> (89)..(89)
<223> X = Met or Ala

<400> 666

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Xaa Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Xaa Xaa Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Xaa Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 667
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 667
cagctgcagc tgcaggaatc cggccctggc ctggtcaagc cctccgagac actgagcctg 60

acctgcaccg tgtccggcgg ctccatctcc tccagctcct actactggtc ctggatccgg 120

cagcaccccg gcaagggcct ggaatggatc ggctacatct actactccgg ctccaccaac 180

tacaacccca gcctgaagtc cagagtgacc atctccgtgg acacctccaa gaaccagttc 240

tccctgaagc tgtcctccgt gaccgccgct gacaccgccg tgtactactg tgccagagtg 300

ggcggagctg gcggctggcc tctggatgtg tggggccagg gcaccaccgt caccgtgtcc 360

tca 363

<210> 668
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 668
cagctgcagc tgcaggaatc cggccctggc ctggtcaagc cctccgagac actgagcctg 60

acctgcaccg tgtccggcgg ctccatctcc tccagctcct actactggtc ctggatccgg 120

cagcctcccg gcaagggcct ggaatggatc ggctacatct actactccgg ctccaccaac 180

tacaacccca gcctgaagtc cagagtgacc atctccgtgg acaccctgaa gaaccagatc 240

tccctgcggc tgacctccgt gaccgccgct gacaccgccg tgtactactg tgccagagtg 300

ggcggagctg gcggctggcc tatggatgtg tggggccagg gcaccaccgt caccgtgtcc 360

tca 363

<210> 669
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 669
caggccgtgc tgacccagcc tgcctccctg tctgcctctc ctggcgagtc cgccagactg 60

acctgcaccc tgccctccga catcaacgtg cggtactaca acatctactg gtatcagcag 120

aagcccggca gccccccag atacctgctg tactactact ccgactccca caagggccag 180

ggctccggcg tgccctccag attctccggc tccaaggacg tgtccaccaa ctccggcatc 240

ctgctgatct ccggcctgca gtccgaggac attgccacct actactgcat gacttggagc 300

agcaacggca gcggcgtgtt cggcggaggc acccagctga ccgtcctagg t 351

<210> 670
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 670
caggccgtgc tgacccagcc tgcctccctg tctgcctctc ctggcgagtc cgccagactg 60

acctgcaccc tgccctccga catcaacgtg cggtactaca acatctactg gtatcagcag 120

aagcccggca gccccccag atacctgctg tactactact ccgactccca caagggccag 180

ggctccggcg tgccctccag attctccggc tccaaggacg tgtccaccac ctccggcatc 240

ctgctgatct ccggcctgca gtccgaggac attgccacct actactgcat gacttggagc 300

agcaacggca gcggcgtgtt cggcggaggc acccagctga ccgtcctagg t 351

<210> 671
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 671
caggccgtgc tgacccagcc tgcctccctg tctgcctctc ctggcgagtc cgccagactg 60

acctgcaccc tgccctccga catcaacgtg cggtactaca acatctactg gtatcagcag 120

aagcccggca gccccccag atacctgctg tactactacg aggactccca caagggccag 180

ggctccggcg tgccctccag attctccggc tccaaggacg tgtccaccaa ctccggcatc 240

ctgctgatct ccggcctgca gtccgaggac attgccacct actactgcat gacttggagc 300

agcaacggca gcggcgtgtt cggcggaggc acccagctga ccgtcctagg t 351

<210> 672
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 672
caggccgtgc tgacccagcc tgcctccctg tctgcctctc ctggcgagtc cgccagactg 60

acctgcaccc tgccctccga catcaacgtg cggtactaca acatctactg gtatcagcag 120

aagcccggca gccccccag atacctgctg tactactacc aggactccca caagggccag 180

ggctccggcg tgccctccag attctccggc tccaaggacg tgtccaccaa ctccggcatc 240

ctgctgatct ccggcctgca gtccgaggac attgccacct actactgcat gacttggagc 300

agcaacggca gcggcgtgtt cggcggaggc acccagctga ccgtcctagg t 351

<210> 673
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 673
caggctgtgc tgacgcagcc ggccagcctc tccgcgtccc ctggcgaatc cgcacggctg 60

acttgcaccc tgccgagcga cattaacgtc ggtagctaca atatctactg gtaccaacaa 120

aagccgggga gcccaccccg ctacttactg tattactact cggattccca taaaggacag 180

ggatcgggag tgccatcacg cttcagcgga tcgaaggatg tgtcgaccaa ttcgggaatc 240

ctgctcatct caggcttgca gagcgaggac atcgccacct actactgtct gacttggtca 300

tcccaggggt caggcgtgtt tggaggaggt acccagctga ctgtcctagg t 351

<210> 674
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 674
caggctgtgc tgacgcagcc ggccagcctc tccgcgtccc ctggcgaatc cgcacggctg 60

acttgcaccc tgccgagcga cattaacgtc ggtagctaca atatctactg gtaccaacaa 120

aagccgggga gcccaccccg ctacttactg tattactact cggattccca taaaggacag 180

ggatcgggag tgccatcacg cttcagcgga tcgaaggatg tgtcgaccaa ttcgggaatc 240

ctgctcatct caggcttgca gagcgaggac atcgccacct actactgtct gacttggtca 300

tccgaagggt caggcgtgtt tggaggaggt acccagctga ctgtcctagg t 351

<210> 675
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 675
caggctgtgc tgacgcagcc ggccagcctc tccgcgtccc ctggcgaatc cgcacggctg 60

acttgcaccc tgccgagcga cattaacgtc ggtagctaca atatctactg gtaccaacaa 120

aagccgggga gcccaccccg ctacttactg tattactacg aggattccca taaaggacag 180

ggatcgggag tgccatcacg cttcagcgga tcgaaggatg tgtcgaccac ctcgggaatc 240

ctgctcatct caggcttgca gagcgaggac atcgccacct actactgtct gacttggtca 300

tcccaggggt caggcgtgtt tggaggaggt acccagctga ctgtcctagg t 351

<210> 676
<211> 351
<212> DNA
<213> Artificial Sequence

<220>

<223> Completely synthesized.

<400> 676
caggctgtgc tgacgcagcc ggccagcctc tccgcgtccc ctggcgaatc cgcacggctg 60

acttgcaccc tgccgagcga cattaacgtc ggtagctaca atatctactg gtaccaacaa 120

aagccgggga gcccaccccg ctacttactg tattactacg aggattccca taaaggacag 180

ggatcgggag tgccatcacg cttcagcgga tcgaaggatg tgtcgaccac ctcgggaatc 240

ctgctcatct caggcttgca gagcgaggac atcgccacct actactgtct gacttggtca 300

tccgaagggt caggcgtgtt tggaggaggt acccagctga ctgtcctagg t 351

<210> 677
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 677
caggctgtgc tgacgcagcc ggccagcctc tccgcgtccc ctggcgaatc cgcacggctg 60

acttgcaccc tgccgagcga cattaacgtc ggtagctaca atatctactg gtaccaacaa 120

aagccgggga gcccaccccg ctacttactg tattactacc aggattccca taaaggacag 180

ggatcgggag tgccatcacg cttcagcgga tcgaaggatg tgtcgaccac ctcgggaatc 240

ctgctcatct caggcttgca gagcgaggac atcgccacct actactgtct gacttggtca 300

tcccaggggt caggcgtgtt tggaggaggt acccagctga ctgtcctagg t 351

<210> 678
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 678
caggctgtgc tgacgcagcc ggccagcctc tccgcgtccc ctggcgaatc cgcacggctg 60

acttgcaccc tgccgagcga cattaacgtc ggtagctaca atatctactg gtaccaacaa 120

aagccgggga gcccaccccg ctacttactg tattactacc aggattccca taaaggacag 180

ggatcgggag tgccatcacg cttcagcgga tcgaaggatg tgtcgaccac ctcgggaatc 240

ctgctcatct caggcttgca gagcgaggac atcgccacct actactgtct gacttggtca 300

tccgaagggt caggcgtgtt tggaggaggt acccagctga ctgtcctagg t 351

<210> 679
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 679
gaggtgcagc tggtgcagtc cggcgctgaa gtgaagaaac ccggcgctac cgtgaagatc 60

tcctgcaagg tgtccggcta caccttcacc gactccgtga tgaactgggt gcagcaggag 120

cctggcaagg gcctggaatg gatgggctgg atcgaccccg agtacggcag aaccgacgtg 180

gccgagaagt tccagggcag agtgaccatc accgccgaca cctccaccga caccgcctac 240

atggaactgt cctccctgcg gagcgaggac accgccgtgt actactgcgc ccggaccaag 300

tacaactccg gctacggctt cccctactgg ggccagggca ccaccgtgac agtgtcctca 360

<210> 680
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 680
gaggtgcagc tggtgcagtc cggcgctgaa gtgaagaaac ccggcgctac cgtgaagatc 60

tcctgcaagg tgtccggcta caccttcacc gactccgtga tgaactgggt gcagcagggc 120

cctggcaagg gcctggaatg gatgggctgg atcgaccccg agtacggcag aaccgacgtg 180

gccgagaagt tccagggcag agtgaccatc accgccgaca cctccaccga caccgcctac 240

atggaactgt cctccctgcg gagcgaggac accgccgtgt actactgcgc ccggaccaag 300

tacaactccg gctacggctt cccctactgg ggccagggca ccaccgtgac agtgtcctca 360

<210> 681
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 681
gaggtgcagc tggtgcagtc cggcgctgaa gtgaagaaac ccggcgctac cgtgaagatc 60

tcctgcaagg tgtccggcta caccttcacc gactccgtga tgaactgggt gcagcagcac 120

cctggcaagg gcctggaatg gatgggctgg atcgaccccg agtacggcag aaccgacgtg 180

gccgagaagt tccagggcag agtgaccatc accgccgaca cctccaccga caccgcctac 240

atggaactgt cctccctgcg gagcgaggac accgccgtgt actactgcgc ccggaccaag 300

tacaactccg gctacggctt cccctactgg ggccagggca ccaccgtgac agtgtcctca 360

<210> 682
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 682
gaggtgcagc tggtgcagtc cggcgctgaa gtgaagaaac ccggcgctac cgtgaagatc 60

tcctgcaagg tgtccggcta caccttcacc gactccgtga tgaactgggt gcagcagcag 120

cctggcaagg gcctggaatg gatgggctgg atcgaccccg agtacggcag aaccgacgtg 180

gccgagaagt tccagggcag agtgaccatc accgccgaca cctccaccga caccgcctac 240

atggaactgt cctccctgcg gagcgaggac accgccgtgt actactgcgc ccggaccaag 300

tacaactccg gctacggctt cccctactgg ggccagggca ccaccgtgac agtgtcctca 360

<210> 683
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 683
gaggtgcagc tggtgcagtc cggcgctgaa gtgaagaaac ccggcgctac cgtgaagatc 60

tcctgcaagg tgtccggcta caccttcacc gactccgtga tgaactgggt gcagcaggcc 120

cctggcaagg gcctggaatg gatgggctgg atcgaccccg agtacggcag aaccgacgtg 180

gccgagaagt tccagggcag agtgaccatc accgccgaca cctccaccga caccgcctac 240

atggaactgt cctccctgcg gagcgaggac accgccgtgt actactgcgc ccggaccggc 300

tacaactccg gctacggctt cccctactgg ggccagggca ccaccgtgac agtgtcctca 360

<210> 684
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 684
gaggtgcagc tggtgcagtc cggcgctgaa gtgaagaaac ccggcgctac cgtgaagatc 60

tcctgcaagg tgtccggcta caccttcacc gactccgtga tgaactgggt gcagcaggcc 120

cctggcaagg gcctggaatg gatgggctgg atcgaccccg agtacggcag aaccgacgtg 180

gccgagaagt tccagggcag agtgaccatc accgccgaca cctccaccga caccgcctac 240

atggaactgt cctccctgcg gagcgaggac accgccgtgt actactgcgc ccggaccacc 300

tacaactccg gctacggctt cccctactgg ggccagggca ccaccgtgac agtgtcctca 360

<210> 685
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 685
gaggtgcagc tggtgcagtc cggcgctgaa gtgaagaaac ccggcgctac cgtgaagatc 60

tcctgcaagg tgtccggcta caccttcacc gactccgtga tgaactgggt gcagcaggcc 120

cctggcaagg gcctggaatg gatgggctgg atcgaccccg agtacggcag aaccgacgtg 180

gccgagaagt tccagggcag agtgaccatc accgccgaca cctccaccga caccgcctac 240

atggaactgt cctccctgcg gagcgaggac accgccgtgt actactgcgc ccggaccaag 300

tacaactccg gctacggctt cccctactgg ggccagggca ccaccgtgac agtgtcctca 360

<210> 686
<211> 360

<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 686
gaggtgcagc tggtgcagtc cggcgctgaa gtgaagaaac ccggcgctac cgtgaagatc 60

tcctgcaagg tgtccggcta caccttcacc gactccgtga tgaactgggt gcagcaggcc 120

cctggcaagg gcctggaatg gatgggctgg atcgaccccg agtacggcag aaccgacgtg 180

gccgagaagt tccagggcag agtgaccatc accgccgaca cctccaccga caccgcctac 240

atggaactgt cctccctgcg gagcgaggac accgccgtgt actactgcgc ccctaccaag 300

tacaactccg gctacggctt cccctactgg ggccagggca ccaccgtgac agtgtcctca 360

<210> 687
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 687
caggtgcagc tggtgcagtc cggcgctgaa gtgaagaaac ccggcgcttc cgtgaaggtg 60

tcctgcaagg tgtccggcta caccctgacc gactccgtga tgaactgggt gcgacaggcc 120

cctggcaagg gcctggaatg gatgggctgg atcgaccccg agtacggcag aaccgacgtg 180

gcccagaaat tccagggcag agtgaccatg accgccgaca cctccaccga caccgcctac 240

atggaactgt cctccctgcg gagcgaggac accgccgtgt actactgcgc ccggaccaag 300

tacaactccg gctacggctt cccctactgg ggccagggca ccaccgtgac cgtgtcctca 360

<210> 688
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 688
gacatccaga tgacccagag cccttccagc ctgtccgcct ctgtgggcga cagagtgacc 60

atcacatgca aggcctccca gaacgtggac agcgacgtgg actggtatca gcagaagccc 120

ggcaaggccc ctaagctgct gatctacaag gccagcaaca gatacaccgg cgtgccctcc 180

agattctccg gctctggatc tggcaccgac ttcaccttca ccatcagctc cctgcagccc 240

gaggacattg ccacctacta ctgtatgcag tccaacaccc acccccggac cttcggcgga 300

ggcaccaagg tggaaatcaa gcgt 324

<210> 689
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 689
gacatccaga tgacccagag cccttccagc ctgtccgcct ctgtgggcga cagagtgacc 60

atcacatgcg gcgcctccca gaacgtggac agcgacgtgg actggtatca gcagaagccc 120

ggcaaggccc ctaagctgct gatctacaag gccagcaaca gatacaccgg cgtgccctcc 180

agattctccg gctctggatc tggcaccgac ttcaccttca ccatcagctc cctgcagccc 240

gaggacattg ccacctacta ctgtatgcag tccaacaccc acccccggac cttcggcgga 300

ggcaccaagg tggaaatcaa gcgt 324

<210> 690
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 690
gacatccaga tgacccaatc cccttcctca ttgtccgctt cggtcggcga ccgcgtgact 60

atcacttgcc aggcatcaca aaacgtggat tcggatgtgg attggtacca gcagaagccc 120

ggaaaggccc cgaaactgct gatctacaag gcgtccaacc ggtacactgg cgtcccgtcg 180

agattcagcg gaagcgggtc gggaaccgac tttaccttca ctatcagctc actccagcca 240

gaggacattg ccacctatta ctgtatgcag agcaataccc acccgcgcac cttcggagga 300

ggtactaaag tggaaatcaa gcgt 324

<210> 691
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 691
gacatccaga tgacccagag cccttccagc ctgtccgcct ctgtgggcga cagagtgacc 60

atcacatgca aggcctccca gaacgtggac agcgacgtgg actggtatca gcagaagccc 120

ggcaaggccc ctaagctgct gatctacaag gccagcaacg actacaccgg cgtgccctcc 180

agattctccg gctctggatc tggcaccgac ttcaccttca ccatcagctc cctgcagccc 240

gaggacattg ccacctacta ctgtatgcag tccaacaccc acccccggac cttcggcgga 300

ggcaccaagg tggaaatcaa gcgt 324

<210> 692
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 692
gacatccaga tgacccagag cccttccagc ctgtccgcct ctgtgggcga cagagtgacc 60

atcacatgca aggcctccca gaacgtggac agcgacgtgg actggtatca gcagaagccc 120

ggcaaggccc ctaagctgct gatctacaag gccagcaaca gatacaccgg cgtgccctcc 180

agattctccg gctctggatc tggcaccgac ttcaccttca ccatcagctc cctgcagccc 240

gaggacattg ccacctacta ctgtgcgcag tccaacaccc acccccggac cttcggcgga 300

ggcaccaagg tggaaatcaa gcgt 324

<210> 693
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 693
gacatccaga tgacccaatc cccttcctca ttgtccgctt cggtcggcga ccgcgtgact 60

atcacttgca aagcatcaca aaacgtggat tcggatgtgg attggtacca gcagaagccc 120

ggaaaggccc cgaaactgct gatctacaag gcgtcccagc ggtacactgg cgtcccgtcg 180

agattcagcg gaagcgggtc gggaaccgac tttaccttca ctatcagctc actccagcca 240

gaggacattg ccacctatta ctgtatgcag agcaataccc acccgcgcac cttcggagga 300

ggtactaaag tggaaatcaa gcgt 324

<210> 694
<211> 492
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized.

<400> 694

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

```
Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val Thr Cys Val Val Val
    130                 135                 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
            260                 265                 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
        275                 280                 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
    290                 295                 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305                 310                 315                 320

Leu Ser Leu Ser Leu Gly Lys Cys Asp Leu Pro Gln Thr His Ser Leu
                325                 330                 335

Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser
            340                 345                 350
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```
Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu
        355                 360                 365

Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His
    370                 375                 380

Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser
385                 390                 395                 400

Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr
                405                 410                 415

Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val
            420                 425                 430

Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys
        435                 440                 445

Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro
    450                 455                 460

Cys Ala Trp Glu Val Val Arg Gly Glu Ile Met Arg Ser Phe Ser Leu
465                 470                 475                 480

Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu
                485                 490
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<210> 695
<211> 366
<212> DNA
<213> Homo sapiens

<400> 695

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gaggtccagc tggtacagtc tggggctgag gtgaagaagt ctggggcctc agtgaaggtc       60

tcctgcaagg cttctggata caccttcacc gactactata tacactgggt gcgacaggcc      120

cctggacaag ggcttgagtg gatgggatgg atcaacccta acaatggtgg cgtaaccttt      180

gcccagaagt ttcagggcag ggtcaccatg accagggaca cgtccatcag cacagcctac      240

atggacctga gcagcctgag atctgacgac acggccgtct acttctgtgc gagagatatt      300
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cgaatgagcg ggtggctggc gccatttgac tactggggcc agggaaccct ggtcaccgtc 360

tcctca 366

<210> 696
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 696

Gly Ala Ser Gln Asn Val Asp Ser Asp Val Asp
1 5 10

<210> 697
<211> 5
<212> PRT
<213> Homo sapiens

<400> 697

Asp Tyr Tyr Ile His
1 5

<210> 698
<211> 17
<212> PRT
<213> Homo sapiens

<400> 698

Trp Ile Asn Pro Asn Asn Gly Gly Val Thr Phe Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 699
<211> 13
<212> PRT
<213> Homo sapiens

<400> 699

Asp Ile Arg Met Ser Gly Trp Leu Ala Pro Phe Asp Tyr
1 5 10

<210> 700
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 700

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
20 25 30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
35 40 45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Thr Ser Gly Ile
65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
85 90 95

Leu Thr Trp Ser Ser Gln Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
100 105 110

Leu Thr Val Leu Gly
115

<210> 701
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 701

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

Ser Ala Arg Leu Thr Cys Thr Leu Pro Ser Asp Ile Asn Val Gly Ser
            20                  25                  30

Tyr Asn Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr
        35                  40                  45

Leu Leu Tyr Tyr Tyr Ser Asp Ser His Lys Gly Gln Gly Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Val Ser Thr Thr Ser Gly Ile
65                  70                  75                  80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Ile Ala Thr Tyr Tyr Cys
                85                  90                  95

Leu Thr Trp Ser Ser Glu Gly Ser Gly Val Phe Gly Gly Gly Thr Gln
            100                 105                 110

Leu Thr Val Leu Gly
        115
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<210> 702
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 702

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caagccgtcc tgactcagcc agccagcctg tccgcgtcac cgggagaatc cgctcgcctg       60

acttgcactc tgccctcaga catcaatgtc ggttcgtaca acatctactg gtaccaacaa      120

aagccggggt cgcctccgcg gtatctgttg tactactact cggatagcca caagggacag      180

ggctcgggag tgccatccag attttccggg tcaaaagatg tgagcacgac ctcgggcatc      240

ctcctcatca gcggacttca gtccgaggac attgcgacct actactgcct cacttggtcg      300

tcacagggaa gcggagtgtt cggaggaggc acccagctga ccgtcctagg t               351
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<210> 703
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 703
caagccgtcc tgactcagcc agccagcctg tccgcgtcac cgggagaatc cgctcgcctg 60

acttgcactc tgccctcaga catcaatgtc ggttcgtaca acatctactg gtaccaacaa 120

aagccggggt cgcctccgcg gtatctgttg tactactact cggatagcca caagggacag 180

ggctcgggag tgccatccag attttccggg tcaaaagatg tgagcacgac ctcgggcatc 240

ctcctcatca gcggacttca gtccgaggac attgcgacct actactgcct cacttggtcg 300

tcagaaggaa gcggagtgtt cggaggaggc acccagctga ccgtcctagg t 351

<210> 704
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 704

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Gly Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Asn Asp Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Ala Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 705
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 705

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Gly Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Ala Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 706
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 706

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15


Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30


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


Tyr Lys Ala Ser Asn Asp Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60


Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80


Glu Asp Ile Ala Thr Tyr Tyr Cys Ala Gln Ser Asn Thr His Pro Arg
                85                  90                  95


Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105


<210>  707
<211>  108
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized

<400>  707

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15


Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30


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


Tyr Lys Ala Ser Asn Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60
```

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Ala Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 708
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 708

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Gly Ala Ser Gln Asn Val Asp Ser Asp
20 25 30

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

Tyr Lys Ala Ser Gln Asp Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Ala Gln Ser Asn Thr His Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 709
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 709

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1   5   10   15

Asp Arg Val Thr Ile Thr Cys Gly Ala Ser Gln Asn Val Asp Ser Asp
            20   25   30

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

Tyr Lys Ala Ser Gln Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50   55   60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65   70   75   80

Glu Asp Ile Ala Thr Tyr Tyr Cys Ala Gln Ser Asn Thr His Pro Arg
                85   90   95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100   105

<210> 710
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 710

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1   5   10   15

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asn Val Asp Ser Asp
            20   25   30

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

```
Tyr Lys Ala Ser Gln Asp Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Ile Ala Thr Tyr Tyr Cys Ala Gln Ser Asn Thr His Pro Arg
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105
```

<210> 711
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 711

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asn Val Asp Ser Asp
            20                  25                  30

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

Tyr Lys Ala Ser Gln Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Ile Ala Thr Tyr Tyr Cys Ala Gln Ser Asn Thr His Pro Arg
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
            100                 105
```

<210> 712
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 712
gacatccaga tgactcagag cccgtcctcg ctttcggctt ccgtcggcga ccgcgtgacc 60

atcacttgtg gcgcgtcgca gaacgtcgat tccgacgtgg actggtacca acagaagccg 120

gggaaagcgc ccaagctgct gatctacaag gcctccaatg attacactgg agtgcctagc 180

cggttcagcg gatcagggtc gggaacggac ttcactttta ccatctcaag cctccaacca 240

gaagatattg ccacctatta ctgcgcacaa tcaaacaccc acccgagaac cttcggcgga 300

ggaaccaagg tggagatcaa acgt 324

<210> 713
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 713
gacatccaga tgactcagag cccgtcctcg ctttcggctt ccgtcggcga ccgcgtgacc 60

atcacttgtg gcgcgtcgca gaacgtcgat tccgacgtgg actggtacca acagaagccg 120

gggaaagcgc ccaagctgct gatctacaag gcctccaatc gctacactgg agtgcctagc 180

cggttcagcg gatcagggtc gggaacggac ttcactttta ccatctcaag cctccaacca 240

gaagatattg ccacctatta ctgcgcacaa tcaaacaccc acccgagaac cttcggcgga 300

ggaaccaagg tggagatcaa acgt 324

<210> 714
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 714
gacatccaga tgactcagag cccgtcctcg ctttcggctt ccgtcggcga ccgcgtgacc 60

atcacttgtc aggcgtcgca gaacgtcgat tccgacgtgg actggtacca acagaagccg 120

gggaaagcgc ccaagctgct gatctacaag gcctccaatg attacactgg agtgcctagc 180

cggttcagcg gatcagggtc gggaacggac ttcactttta ccatctcaag cctccaacca 240

gaagatattg ccacctatta ctgcgcacaa tcaaacaccc acccgagaac cttcggcgga 300

ggaaccaagg tggagatcaa acgt 324

<210> 715
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 715
gacatccaga tgactcagag cccgtcctcg ctttcggctt ccgtcggcga ccgcgtgacc 60

atcacttgtc aggcgtcgca gaacgtcgat tccgacgtgg actggtacca acagaagccg 120

gggaaagcgc ccaagctgct gatctacaag gcctccaatc gctacactgg agtgcctagc 180

cggttcagcg gatcagggtc gggaacggac ttcactttta ccatctcaag cctccaacca 240

gaagatattg ccacctatta ctgcgcacaa tcaaacaccc acccgagaac cttcggcgga 300

ggaaccaagg tggagatcaa acgt 324

<210> 716
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 716
gacatccaga tgactcagag cccgtcctcg ctttcggctt ccgtcggcga ccgcgtgacc 60

atcacttgtg gcgcgtcgca gaacgtcgat tccgacgtgg actggtacca acagaagccg 120

gggaaagcgc ccaagctgct gatctacaag gcctcccagg attacactgg agtgcctagc 180

cggttcagcg gatcagggtc gggaacggac ttcactttta ccatctcaag cctccaacca 240

gaagatattg ccacctatta ctgcgcacaa tcaaacaccc acccgagaac cttcggcgga 300

ggaaccaagg tggagatcaa acgt 324

<210> 717
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 717
gacatccaga tgactcagag cccgtcctcg ctttcggctt ccgtcggcga ccgcgtgacc 60

atcacttgtg gcgcgtcgca gaacgtcgat tccgacgtgg actggtacca acagaagccg 120

gggaaagcgc ccaagctgct gatctacaag gcctcccagc gctacactgg agtgcctagc 180

cggttcagcg gatcagggtc gggaacggac ttcactttta ccatctcaag cctccaacca 240

gaagatattg ccacctatta ctgcgcacaa tcaaacaccc acccgagaac cttcggcgga 300

ggaaccaagg tggagatcaa acgt 324

<210> 718
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 718
gacatccaga tgactcagag cccgtcctcg ctttcggctt ccgtcggcga ccgcgtgacc 60

atcacttgtc aggcgtcgca gaacgtcgat tccgacgtgg actggtacca acagaagccg 120

gggaaagcgc ccaagctgct gatctacaag gcctcccagg attacactgg agtgcctagc 180

cggttcagcg gatcagggtc gggaacggac ttcactttta ccatctcaag cctccaacca 240

gaagatattg ccacctatta ctgcgcacaa tcaaacaccc acccgagaac cttcggcgga 300

ggaaccaagg tggagatcaa acgt 324

<210> 719
<211> 324
<212> DNA
<213> Artificial Sequence

<220>

<223> Completely synthesized

<400> 719
gacatccaga tgactcagag cccgtcctcg ctttcggctt ccgtcggcga ccgcgtgacc 60

atcacttgtc aggcgtcgca gaacgtcgat tccgacgtgg actggtacca acagaagccg 120

gggaaagcgc ccaagctgct gatctacaag gcctcccagc gctacactgg agtgcctagc 180

cggttcagcg gatcagggtc gggaacggac ttcactttta ccatctcaag cctccaacca 240

gaagatattg ccacctatta ctgcgcacaa tcaaacaccc acccgagaac cttcggcgga 300

ggaaccaagg tggagatcaa acgt 324

<210> 720
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 720

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

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Gly Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 721
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 721

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

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe
    50   55   60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65   70   75   80

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

Ala Arg Thr Gly Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100   105   110

Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 722
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 722

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

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Gly Tyr Gln Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 723
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 723

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

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

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Gly Tyr Gln Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 724
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 724
caagtgcaac tggtgcagtc cggtgccgaa gtgaagaaac cgggtgcgtc cgtcaaagtg 60

agctgcaagg tgtccgggta caccttgact gattcagtga tgaattgggt gcggcagggg 120

ccaggaaagg gactggagtg gatgggatgg atcgaccctg aatacggaag gactgacgtc 180

gcccagaagt ttcagggacg cgtcacgatg actgccgata cttcgaccga cacggcttac 240

atggaactct cgtccctgag atcggaggac accgcagtct actactgtgc tcgcactggc 300

tataactcag gctacggctt cccgtactgg ggacaaggaa ccaccgtgac agtgtcctca 360

<210> 725
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 725
caagtgcaac tggtgcagtc cggtgccgaa gtgaagaaac cgggtgcgtc cgtcaaagtg 60

agctgcaagg tgtccgggta caccttgact gattcagtga tgaattgggt gcggcagcac 120

ccaggaaagg gactggagtg gatgggatgg atcgaccctg aatacggaag gactgacgtc 180

gcccagaagt ttcagggacg cgtcacgatg actgccgata cttcgaccga cacggcttac 240

atggaactct cgtccctgag atcggaggac accgcagtct actactgtgc tcgcactggc 300

tataactcag gctacggctt cccgtactgg ggacaaggaa ccaccgtgac agtgtcctca 360

<210> 726
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 726
caagtgcaac tggtgcagtc cggtgccgaa gtgaagaaac cgggtgcgtc cgtcaaagtg 60

agctgcaagg tgtccgggta caccttgact gattcagtga tgaattgggt gcggcagggg 120

ccaggaaagg gactggagtg gatgggatgg atcgaccctg aatacggaag gactgacgtc 180

gcccagaagt ttcagggacg cgtcacgatg actgccgata cttcgaccga cacggcttac 240

atggaactct cgtccctgag atcggaggac accgcagtct actactgtgc tcgcactggc 300

tatcagtcag gctacggctt cccgtactgg ggacaaggaa ccaccgtgac agtgtcctca 360

<210> 727
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 727
caagtgcaac tggtgcagtc cggtgccgaa gtgaagaaac cgggtgcgtc cgtcaaagtg 60

agctgcaagg tgtccgggta caccttgact gattcagtga tgaattgggt gcggcagcac 120

ccaggaaagg gactggagtg gatgggatgg atcgaccctg aatacggaag gactgacgtc 180

gcccagaagt ttcagggacg cgtcacgatg actgccgata cttcgaccga cacggcttac 240

atggaactct cgtccctgag atcggaggac accgcagtct actactgtgc tcgcactggc 300

tatcagtcag gctacggctt cccgtactgg ggacaaggaa ccaccgtgac agtgtcctca 360

<210> 728
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 728

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Ser Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Tyr Ile His Trp Val Arg Gln Pro Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Pro Asn Asn Gly Gly Val Thr Phe Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys
85 90 95

Ala Arg Asp Ile Arg Met Ser Gly Trp Leu Ala Pro Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 729
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 729

```
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Ser Gly Ala
1               5                   10                  15


Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30


Tyr Ile His Trp Val Arg Gln Pro Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45


Gly Trp Ile Asn Pro Asn Asn Gly Gly Val Thr Phe Ala Gln Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65                  70                  75                  80


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


Ala Arg Asp Ile Arg Met Ser Gly Trp Leu Ala Pro Phe Asp Tyr Trp
            100                 105                 110


Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  730
<211>  122
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Completely synthesized

<400>  730

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Ser Gly Ala
1               5                   10                  15


Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30


Tyr Ile His Trp Val Arg Gln Pro Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45
```

```
Gly Trp Ile Asn Pro Asn Asn Gly Gly Thr Thr Phe Ala Gln Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65                  70                  75                  80

Met Asp Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys
                85                  90                  95

Ala Arg Asp Ile Arg Met Ser Gly Trp Leu Ala Pro Phe Asp Tyr Trp
            100                 105                 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 731
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 731

```
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Ser Gly Ala
1               5                   10                  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30

Tyr Ile His Trp Val Arg Gln Pro Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45

Gly Trp Ile Asn Pro Asn Asn Gly Gly Val Thr Phe Ala Gln Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65                  70                  75                  80

Met Asp Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys
                85                  90                  95
```

Ala Arg Asp Ile Arg Leu Ser Gly Trp Leu Ala Pro Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 732
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 732
gaagtccaac tggtccagtc gggcgcagag gtgaagaagt caggggcgag cgtgaaagtg 60

tcatgtaaag cctccggcta cacttttacc gattactaca ttcactgggt gagacagcct 120

ccgggacaag gactcgaatg gatgggctgg atcaatccaa acaacggagg tgtcaccttc 180

gctcagaagt tccaaggtcg ggtgaccatg acccgcgaca cgtcaatcag cactgcctac 240

atggatttgt cgtccctgcg gtccgatgac actgcggtgt acttctgcgc aagggacatc 300

cgcatgtcgg ggtggctggc cccgttcgac tattggggac agggaactct cgtgacagtg 360

tcctca 366

<210> 733
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 733
gaagtccaac tggtccagtc gggcgcagag gtgaagaagt caggggcgag cgtgaaagtg 60

tcatgtaaag cctccggcta cacttttacc gattactaca ttcactgggt gagacagcct 120

ccgggacaag gactcgaatg gatgggctgg atcaatccaa acaacggagg tgtcaccttc 180

gctcagaagt tccaaggtcg ggtgaccatg acccgcgaca cgtcaatcag cactgcctac 240

atggatttgt cgtccctgcg gtccgatgac actgcggtgt actactgcgc aagggacatc 300

cgcatgtcgg ggtggctggc cccgttcgac tattggggac agggaactct cgtgacagtg 360

tcctca 366

<210> 734
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 734
gaagtccaac tggtccagtc gggcgcagag gtgaagaagt caggggcgag cgtgaaagtg 60

tcatgtaaag cctccggcta cacttttacc gattactaca ttcactgggt gagacagcct 120

ccgggacaag gactcgaatg gatgggctgg atcaatccaa acaacggagg taccaccttc 180

gctcagaagt tccaaggtcg ggtgaccatg acccgcgaca cgtcaatcag cactgcctac 240

atggatttgt cgtccctgcg gtccgatgac actgcggtgt acttctgcgc aagggacatc 300

cgcatgtcgg ggtggctggc cccgttcgac tattggggac agggaactct cgtgacagtg 360

tcctca 366

<210> 735
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 735
gaagtccaac tggtccagtc gggcgcagag gtgaagaagt caggggcgag cgtgaaagtg 60

tcatgtaaag cctccggcta cacttttacc gattactaca ttcactgggt gagacagcct 120

ccgggacaag gactcgaatg gatgggctgg atcaatccaa acaacggagg tgtcaccttc 180

gctcagaagt tccaaggtcg ggtgaccatg acccgcgaca cgtcaatcag cactgcctac 240

atggatttgt cgtccctgcg gtccgatgac actgcggtgt acttctgcgc aagggacatc 300

cgcctgtcgg ggtggctggc cccgttcgac tattggggac agggaactct cgtgacagtg 360

tcctca 366

<210> 736
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<220>
<221> Variant
<222> (40)..(40)
<223> X = Ala or Pro

<220>
<221> Variant
<222> (58)..(58)
<223> X = Val or Thr

<220>
<221> Variant
<222> (95)..(95)
<223> X = Phe or Tyr

<220>
<221> Variant
<222> (102)..(102)
<223> X = Met or Leu

<400> 736

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Ser Gly Ala
1   5   10   15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20   25   30

Tyr Ile His Trp Val Arg Gln Xaa Pro Gly Gln Gly Leu Glu Trp Met
        35   40   45

Gly Trp Ile Asn Pro Asn Asn Gly Gly Xaa Thr Phe Ala Gln Lys Phe
    50   55   60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65   70   75   80

Met Asp Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Xaa Cys
                85   90   95

Ala Arg Asp Ile Arg Xaa Ser Gly Trp Leu Ala Pro Phe Asp Tyr Trp
            100   105   110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 737
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 737

Trp Ile Asn Pro Asn Asn Gly Gly Thr Thr Phe Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 738
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 738

Asp Ile Arg Leu Ser Gly Trp Leu Ala Pro Phe Asp Tyr
1 5 10

<210> 739
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 739

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
20 25 30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50   55   60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65   70   75   80

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

Ala Arg Thr Gly Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100   105   110

Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 740
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 740

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20   25   30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50   55   60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65   70   75   80

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


Ala Arg Thr Gly Tyr Asn Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Thr Val Thr Val Ser Ser
        115                 120
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<210> 741
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 741

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


Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
            20                  25                  30


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


Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80


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


Ala Arg Thr Gly Tyr Gln Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Thr Val Thr Val Ser Ser
        115                 120
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<210> 742
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 742

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

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Ser
20 25 30

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

Gly Trp Ile Asp Pro Glu Tyr Gly Arg Thr Asp Val Ala Glu Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80

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

Ala Arg Thr Gly Tyr Gln Ser Gly Tyr Gly Phe Pro Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 743
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 743
gaagtgcagc tggtgcagtc gggtgcagag gtcaagaaac cgggagcgac cgtgaaaatc 60

agctgcaagg tgtccgggta cactttcacg gactcggtga tgaattgggt ccaacaggga 120

ccggggaagg gattggagtg gatgggatgg attgacccag aatacggccg caccgacgtc 180

gcagaaaagt ttcaaggacg ggtcactatc accgcggaca cctcaaccga tactgcctac 240

atggagctct cctcgctgag aagcgaagat actgccgtgt actactgtgc caggaccggt 300

tacaactcgg gatacggctt cccttattgg ggacagggca ccactgtgac agtgtcctca 360

<210> 744
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 744
gaggtgcagc tggtccagtc aggagcagaa gtcaaaaagc cgggagccac cgtcaagatt 60

tcgtgtaagg tgtcgggcta cactttcact gattccgtca tgaattgggt gcagcaacac 120

ccagggaaag ggttggaatg gatgggatgg atcgaccctg aatacggccg caccgacgtg 180

gcggagaagt ttcaaggaag agtgacgatc actgccgata cctcgaccga caccgcatac 240

atggaactga gctcgctccg gtccgaggac accgccgtgt actactgcgc gaggactggc 300

tacaacagcg gatacggatt cccgtattgg ggccagggta ccactgtgac agtgtcctca 360

<210> 745
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 745
gaggtccagc tggtgcaatc aggagccgaa gtgaaaaagc cgggagcaac cgtcaagatt 60

agctgtaagg tgtcggggta caccttcact gactccgtga tgaactgggt gcagcaaggg 120

ccaggaaagg gactggagtg gatgggctgg atcgaccctg aatacggcag gactgacgtc 180

gccgagaaat tccagggtag agtgaccatc actgcggata cctcgaccga cactgcgtac 240

atggaactct ccagcttgcg gtcggaagat accgccgtct actactgcgc acgcaccggt 300

tatcagtcgg gctacggatt tccgtactgg ggacaaggaa ctacggtgac agtgtcctca 360

<210> 746
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 746
gaagtccagc tcgtgcagtc gggagccgaa gtgaagaagc cgggagcgac tgtcaagatt 60

tcgtgtaagg tcagcggata taccttcacc gattccgtga tgaactgggt gcagcagcac 120

ccaggcaaag gccttgagtg gatggggtgg atcgacccgg agtacgggag aaccgacgtg 180

gcagagaaat ttcaaggacg ggtcaccatc actgccgaca cttccactga cactgcatac 240

atggaactgt catcgctgcg ctcggaagat accgccgtgt actactgcgc gaggacgggt 300

taccaaagcg gatacggatt cccttactgg ggccaaggta ccaccgtgac agtgtcctca 360

<210> 747
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 747

Lys Ala Ser Gln Asp Tyr Thr
1 5

<210> 748
<211> 30
<212> PRT
<213> Homo sapiens

<400> 748

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Ser Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 749
<211> 14

<212> PRT
<213> Homo sapiens

<400> 749

Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
1   5   10

<210> 750
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 750

Trp Val Arg Gln Pro Pro Gly Gln Gly Leu Glu Trp Met Gly
1   5   10

<210> 751
<211> 32
<212> PRT
<213> Homo sapiens

<400> 751

Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr Met Asp
1   5   10   15

Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 752
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Completely synthesized

<400> 752

Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr Met Asp
1   5   10   15

Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 753
<211> 11
<212> PRT
<213> Homo sapiens

<400> 753

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10