SEQUENCE LISTING

<110> Arcellx, Inc.
HILBERT, David D.

<120> MULTIFUNCTIONAL IMMUNE CELL THERAPIES

<130> 6666.0401

<150> US 63/166,550
<151> 2021-03-26

<160> 1166

<170> PatentIn version 3.5

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Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
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Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
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Asp Glu Leu Gln Ala Tyr Arg His Asn
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Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
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Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
        35                  40                  45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
    50                  55                  60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
65                  70                  75                  80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
                85                  90                  95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
            100                 105                 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
        115                 120                 125

Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
    130                 135                 140

Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
145                 150                 155                 160

Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
                165                 170                 175

Arg Asp Ser Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro
            180                 185                 190
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Gly Ser Thr Leu Trp Leu Ser Cys Gly Val Pro Pro Asp Ser Val Ser
        195                 200                 205

Arg Gly Pro Leu Ser Trp Thr His Val His Pro Lys Gly Pro Lys Ser
    210                 215                 220

Leu Leu Ser Leu Glu Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp
225                 230                 235                 240

Val Met Glu Thr Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala
                245                 250                 255

Gly Lys Tyr Tyr Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu
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Glu Ile Thr Ala Arg Pro Val Leu Trp His Trp Leu Leu Arg Thr Gly
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Gly Trp Lys
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Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu Ser Leu Gly
        35                  40                  45

Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile Trp Leu Phe
    50                  55                  60
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Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu Cys Gln Pro
65                  70                  75                  80

Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr Val Asn Val
                85                  90                  95

Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp Leu Gly Gly
            100                 105                 110

Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro Ser Ser Pro
        115                 120                 125

Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala Lys Asp Arg
    130                 135                 140

Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro Arg Asp Ser
145                 150                 155                 160

Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro Gly Ser Thr
                165                 170                 175

Leu Trp Leu Ser Cys Gly Val Pro Pro Asp Ser Val Ser Arg Gly Pro
            180                 185                 190

Leu Ser Trp Thr His Val His Pro Lys Gly Pro Lys Ser Leu Leu Ser
        195                 200                 205

Leu Glu Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp Val Met Glu
    210                 215                 220

Thr Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala Gly Lys Tyr
225                 230                 235                 240

Tyr Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu Glu Ile Thr
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Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
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Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
20 25 30

Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
35 40 45

Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
50 55 60

Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
65 70 75 80

Asn Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
85 90 95

Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
100 105 110

Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
115 120 125

Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe
130 135 140

Pro Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys
145 150 155 160

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Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu
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Ile Glu Lys Ser Ile Ser Ala Arg
            180


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Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
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Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
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Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
        35                  40                  45


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

Glu Lys Asn Ser Pro Ser Thr Gln Tyr Cys Tyr Ser Ile Gln Ser
35 40 45

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Pro Ile Cys Val Thr Val
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Lys Ala Gln Gln Leu Thr Trp Asp Leu Asn Arg Asn Val Thr Asp Ile
            20                  25                  30

Glu Cys Val Lys Asp Ala Asp Tyr Ser Met Pro Ala Val Asn Asn Ser
        35                  40                  45

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

Val Arg Val Ala Asn Pro Pro Phe Ser Thr Trp Ile Leu Phe Pro Glu
65                  70                  75                  80

Asn Ser Gly Lys Pro Trp Ala Gly Ala Glu Asn Leu Thr Cys Trp Ile
                85                  90                  95

His Asp Val Asp Phe Leu Ser Cys Ser Trp Ala Val Gly Pro Gly Ala
            100                 105                 110

Pro Ala Asp Val Gln Tyr Asp Leu Tyr Leu Asn Val Ala Asn Arg Arg
        115                 120                 125

Gln Gln Tyr Glu Cys Leu His Tyr Lys Thr Asp Ala Gln Gly Thr Arg
    130                 135                 140

Ile Gly Cys Arg Phe Asp Asp Ile Ser Arg Leu Ser Ser Gly Ser Gln
145                 150                 155                 160

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

Cys Thr Asp Lys Phe Val Val Phe Ser Gln Ile Glu Ile Leu Thr Pro
            180                 185                 190
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Pro Asn Met Thr Ala Lys Cys Asn Lys Thr His Ser Phe Met His Trp
        195                 200                 205


Lys Met Arg Ser His Phe Asn Arg Lys Phe Arg Tyr Glu Leu Gln Ile
    210                 215                 220


Gln Lys Arg Met Gln Pro Val Ile Thr Glu Gln Val Arg Asp Arg Thr
225                 230                 235                 240


Ser Phe Gln Leu Leu Asn Pro Gly Thr Tyr Thr Val Gln Ile Arg Ala
                245                 250                 255


Arg Glu Arg Val Tyr Glu Phe Leu Ser Ala Trp Ser Thr Pro Gln Arg
            260                 265                 270


Phe Glu Cys Asp Gln Glu Glu Gly Ala Asn Thr Arg Ala Trp Arg
        275                 280                 285


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Gln Ile Trp Ser Lys
            20


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Arg Ala Gln Leu Glu Arg Ser Leu Arg Asp Val Val Glu Lys Thr Ile
1               5                   10                  15
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Asp Tyr Val Gln Phe Gln Leu Arg Cys Cys Gly Trp His Tyr Pro Gln
35 40 45

Asp Trp Phe Gln Val Leu Ile Leu Arg Gly Asn Gly Ser Glu Ala His
50 55 60

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

Ile Leu Asp Lys Val Ile Leu Pro Gln Leu Ser Arg Leu Gly His Leu
85 90 95

Ala Arg Ser Arg His Ser Ala Asp Ile Cys Ala Val Pro Ala Glu Ser
100 105 110

His Ile Tyr Arg Glu Gly Cys Ala Gln Gly Leu Gln Lys Trp Leu His
115 120 125

Asn Asn
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Met Lys Trp Val Glu Ser Ile Phe Leu Ile Phe Leu Leu Asn Phe Thr
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Glu Ser Arg Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu
20 25 30

Asp Ser Tyr Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr
35 40 45

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Ile Phe Phe Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser
    50                  55                  60

Lys Met Val Lys Asp Ala Leu Thr Ala Ile Glu Lys Pro Thr Gly Asp
65                  70                  75                  80

Glu Gln Ser Ser Gly Cys Leu Glu Asn Gln Leu Pro Ala Phe Leu Glu
                85                  90                  95

Glu Leu Cys His Glu Lys Glu Ile Leu Glu Lys Tyr Gly His Ser Asp
            100                 105                 110

Cys Cys Ser Gln Ser Glu Glu Gly Arg His Asn Cys Phe Leu Ala His
        115                 120                 125

Lys Lys Pro Thr Pro Ala Ser Ile Pro Leu Phe Gln Val Pro Glu Pro
    130                 135                 140

Val Thr Ser Cys Glu Ala Tyr Glu Glu Asp Arg Glu Thr Phe Met Asn
145                 150                 155                 160

Lys Phe Ile Tyr Glu Ile Ala Arg Arg His Pro Phe Leu Tyr Ala Pro
                165                 170                 175

Thr Ile Leu Leu Trp Ala Ala Arg Tyr Asp Lys Ile Ile Pro Ser Cys
            180                 185                 190

Cys Lys Ala Glu Asn Ala Val Glu Cys Phe Gln Thr Lys Ala Ala Thr
        195                 200                 205

Val Thr Lys Glu Leu Arg Glu Ser Ser Leu Leu Asn Gln His Ala Cys
    210                 215                 220

Ala Val Met Lys Asn Phe Gly Thr Arg Thr Phe Gln Ala Ile Thr Val
225                 230                 235                 240

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

245 250 255

Lys Leu Val Leu Asp Val Ala His Val His Glu His Cys Cys Arg Gly
260 265 270

Asp Val Leu Asp Cys Leu Gln Asp Gly Glu Lys Ile Met Ser Tyr Ile
275 280 285

Cys Ser Gln Gln Asp Thr Leu Ser Asn Lys Ile Thr Glu Cys Cys Lys
290 295 300

Leu Thr Thr Leu Glu Arg Gly Gln Cys Ile Ile His Ala Glu Asn Asp
305 310 315 320

Glu Lys Pro Glu Gly Leu Ser Pro Asn Leu Asn Arg Phe Leu Gly Asp
325 330 335

Arg Asp Phe Asn Gln Phe Ser Ser Gly Glu Lys Asn Ile Phe Leu Ala
340 345 350

Ser Phe Val His Glu Tyr Ser Arg Arg His Pro Gln Leu Ala Val Ser
355 360 365

Val Ile Leu Arg Val Ala Lys Gly Tyr Gln Glu Leu Leu Glu Lys Cys
370 375 380

Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu
385 390 395 400

Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys
405 410 415

Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu
420 425 430

Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met
435 440 445

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Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu
    450                 455                 460

Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile
465                 470                 475                 480

Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly
                485                 490                 495

Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe
            500                 505                 510

Ser Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp
        515                 520                 525

Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala
    530                 535                 540

Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys
545                 550                 555                 560

Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile Ala Asp Phe Ser
                565                 570                 575

Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe
            580                 585                 590

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

Phe Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser Lys Met
        35                  40                  45

Val Lys Asp Ala Leu Thr Ala Ile Glu Lys Pro Thr Gly Asp Glu Gln
    50                  55                  60

Ser Ser Gly Cys Leu Glu Asn Gln Leu Pro Ala Phe Leu Glu Glu Leu
65                  70                  75                  80

Cys His Glu Lys Glu Ile Leu Glu Lys Tyr Gly His Ser Asp Cys Cys
                85                  90                  95

Ser Gln Ser Glu Glu Gly Arg His Asn Cys Phe Leu Ala His Lys Lys
            100                 105                 110

Pro Thr Pro Ala Ser Ile Pro Leu Phe Gln Val Pro Glu Pro Val Thr
        115                 120                 125

Ser Cys Glu Ala Tyr Glu Glu Asp Arg Glu Thr Phe Met Asn Lys Phe
    130                 135                 140

Ile Tyr Glu Ile Ala Arg Arg His Pro Phe Leu Tyr Ala Pro Thr Ile
145                 150                 155                 160

Leu Leu Trp Ala Ala Arg Tyr Asp Lys Ile Ile Pro Ser Cys Cys Lys
                165                 170                 175

Ala Glu Asn Ala Val Glu Cys Phe Gln Thr Lys Ala Ala Thr Val Thr
            180                 185                 190
```

```
Lys Glu Leu Arg Glu Ser Ser Leu Leu Asn Gln His Ala Cys Ala Val
        195                 200                 205

Met Lys Asn Phe Gly Thr Arg Thr Phe Gln Ala Ile Thr Val Thr Lys
    210                 215                 220

Leu Ser Gln Lys Phe Thr Lys Val Asn Phe Thr Glu Ile Gln Lys Leu
225                 230                 235                 240

Val Leu Asp Val Ala His Val His Glu His Cys Cys Arg Gly Asp Val
                245                 250                 255

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

Gln Gln Asp Thr Leu Ser Asn Lys Ile Thr Glu Cys Cys Lys Leu Thr
        275                 280                 285

Thr Leu Glu Arg Gly Gln Cys Ile Ile His Ala Glu Asn Asp Glu Lys
    290                 295                 300

Pro Glu Gly Leu Ser Pro Asn Leu Asn Arg Phe Leu Gly Asp Arg Asp
305                 310                 315                 320

Phe Asn Gln Phe Ser Ser Gly Glu Lys Asn Ile Phe Leu Ala Ser Phe
                325                 330                 335

Val His Glu Tyr Ser Arg Arg His Pro Gln Leu Ala Val Ser Val Ile
            340                 345                 350

Leu Arg Val Ala Lys Gly Tyr Gln Glu Leu Leu Glu Lys Cys Phe Gln
        355                 360                 365

Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln
    370                 375                 380

Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu
385                 390                 395                 400
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Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala
               405                 410                 415

Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile
            420                 425                 430

Thr Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu
        435                 440                 445

Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly
    450                 455                 460

His Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly
465                 470                 475                 480

Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser
               485                 490                 495

Leu Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys
            500                 505                 510

Phe Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln
        515                 520                 525

Thr Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln
    530                 535                 540

Ile Thr Glu Glu Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu
545                 550                 555                 560

Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu
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Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val
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Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
            20                  25                  30


Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
        35                  40                  45


Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
    50                  55                  60


Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
65                  70                  75                  80


Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
                85                  90                  95


Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
            100                 105                 110


Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
        115                 120                 125


Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro
    130                 135                 140


Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
145                 150                 155                 160
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Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
165 170 175

Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
180 185 190

Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
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Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg
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Ala Ala Leu Gly Val
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Xaa Xaa Ile Ala Xaa Phe Glu Xaa Xaa Leu Gln Xaa Tyr Lys Gly Lys
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Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
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Asp Glu Leu Gln Ala Tyr Arg His Asn
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Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
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Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Xaa
20 25 30

Xaa Glu Ile Xaa Ala Phe Xaa Xaa Glu Leu Xaa Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Xaa Xaa Glu Ala Xaa Ala Ile Xaa
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Xaa Glu Leu Xaa Ala Tyr Arg His Asn
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Arg Leu Xaa Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Xaa Leu Arg Xaa Xaa Ala Ala Xaa Ile Arg
50 55 60

Xaa Xaa Leu Gln Ala Tyr Arg His Asn
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Xaa Glu Ile Xaa Ala Phe Xaa Xaa Glu Leu Xaa Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Xaa Leu Arg Xaa Xaa Ala Ala Xaa Ile Arg
50 55 60

Xaa Xaa Leu Gln Ala Tyr Arg His Asn
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Xaa Xaa Ile Ala Xaa Phe Glu Xaa Xaa Leu Gln Xaa Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Xaa Xaa Glu Ala Xaa Ala Ile Xaa
50 55 60

Xaa Glu Leu Xaa Ala Tyr Arg His Asn
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20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Glu Ala Glu Leu Ala Xaa Phe Glu Xaa Xaa Ile Ala Xaa
50 55 60

Phe Glu Xaa Xaa Leu Gln Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Asn Pro Glu Val Glu Ala Leu Arg Lys Glu
100 105 110

Ala Ala Ala Ile Arg Asp Glu Leu Gln Ala Tyr Arg His Asn
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Arg Leu Glu Ala Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Glu Ala Glu Leu Ala Ala Phe Xaa Xaa Glu Ile Xaa Ala
50 55 60

Phe Xaa Xaa Glu Leu Xaa Ala Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Asn Pro Glu Val Glu Ala Leu Xaa Xaa Glu
100 105 110

Ala Xaa Ala Ile Xaa Xaa Glu Leu Xaa Ala Tyr Arg His Asn
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Arg Leu Xaa Ala Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala
50 55 60

Phe Glu Ser Glu Leu Gln Ala Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Asn Pro Glu Val Glu Xaa Leu Arg Xaa Xaa
100 105 110

Ala Ala Xaa Ile Arg Xaa Xaa Leu Gln Ala Tyr Arg His Asn
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Xaa Leu Glu Ala Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Glu Ala Glu Leu Ala Ala Phe Xaa Xaa Glu Ile Xaa Ala
50 55 60

Phe Xaa Xaa Glu Leu Xaa Ala Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Asn Pro Glu Val Glu Xaa Leu Arg Xaa Xaa
100 105 110

Ala Ala Xaa Ile Arg Xaa Xaa Leu Gln Ala Tyr Arg His Asn
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Arg Leu Xaa Ala Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
            20                  25                  30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
        35                  40                  45

Xaa Xaa Xaa Glu Ala Glu Leu Ala Xaa Phe Glu Xaa Xaa Ile Ala Xaa
    50                  55                  60

Phe Glu Xaa Xaa Leu Gln Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65                  70                  75                  80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
                85                  90                  95

Xaa Xaa Xaa Xaa Xaa Xaa Asn Pro Glu Val Glu Ala Leu Xaa Xaa Glu
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Ala Xaa Ala Ile Xaa Xaa Glu Leu Xaa Ala Tyr Arg His Asn
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Arg Leu Xaa Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Xaa Ala Phe Xaa Xaa Glu Leu Xaa Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Xaa Glu Ala Xaa Xaa Ile Arg
50 55 60

Xaa Glu Leu Xaa Xaa Tyr Arg Xaa Xaa
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Val Asp Asn Lys Phe Asn Lys Glu Xaa Xaa Xaa Ala Xaa Xaa Glu Ile
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Xaa Xaa Leu Pro Asn Leu Asn Xaa Xaa Gln Xaa Xaa Ala Phe Ile Xaa
20 25 30

Ser Leu Xaa Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys
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Asn Lys Glu Xaa Xaa Xaa Ala Xaa Xaa Glu Ile Xaa Xaa Leu Pro Asn
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Leu Asn Xaa Xaa Gln Xaa Xaa Ala Phe Ile Xaa Ser Leu Xaa Asp Asp
20 25 30

Pro

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Leu Glu Ile Val Glu Val Leu Leu Lys Xaa Gly Ala Asp Val Asn Ala
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Xaa

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<223> positions 109 to 141 may be absent

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<221> MISC_FEATURE
<222> (110)..(111)
<223> Xaa is any amino acid but Cys, Arg, or Pro

<220>
<221> MISC_FEATURE
<222> (113)..(113)
<223> Xaa is any amino acid but Cys, Arg, or Pro

<220>
<221> MISC_FEATURE
<222> (121)..(122)
<223> Xaa is any amino acid but Cys, Arg, or Pro

<220>
<221> MISC_FEATURE
<222> (134)..(134)
<223> Xaa is His, Asn, or Tyr

<220>
<221> MISC_FEATURE
<222> (141)..(141)
<223> Xaa is any amino acid but Cys, Arg, or Pro

<400> 31

Met Arg Gly Ser His His His His His His Gly Ser Asp Leu Gly Lys
1 5 10 15

Lys Leu Leu Glu Ala Ala Arg Ala Gly Gln Asp Asp Glu Val Arg Ile
20 25 30

Leu Met Ala Asn Gly Ala Asp Val Asn Ala Asp Xaa Xaa Gly Xaa Thr
35 40 45

Pro Leu His Leu Ala Ala Xaa Xaa Gly His Leu Glu Ile Val Glu Val
50 55 60

Leu Leu Lys Xaa Gly Ala Asp Val Asn Ala Xaa Asp Xaa Xaa Gly Xaa
65 70 75 80

Thr Pro Leu His Leu Ala Ala Xaa Xaa Gly His Leu Glu Ile Val Glu
85 90 95

Val Leu Leu Lys Xaa Gly Ala Asp Val Asn Ala Xaa Asp Xaa Xaa Gly
100 105 110

Xaa Thr Pro Leu His Leu Ala Ala Xaa Xaa Gly His Leu Glu Ile Val
115 120 125

Glu Val Leu Leu Lys Xaa Gly Ala Asp Val Asn Ala Xaa Gln Asp Lys
130 135 140

Phe Gly Lys Thr Ala Phe Asp Ile Ser Ile Asp Asn Gly Asn Glu Asp
145 150 155 160

Leu Ala Glu Ile Leu Gln
165

<210> 32
<211> 25
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 32

Gln Asp Lys Phe Gly Lys Thr Ala Phe Asp Ile Ser Ile Asp Asn Gly
1 5 10 15

Asn Glu Asp Leu Ala Glu Ile Leu Gln
20 25

<210> 33
<211> 28
<212> PRT

<213> Artificial sequence

<220>
<223> artificial construct

<220>
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<222> (3)..(3)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa is any amino acid

<220>
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<222> (8)..(8)
<223> Xaa is any amino acid

<220>
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<222> (12)..(13)
<223> Xaa is any amino acid

<220>
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<222> (15)..(15)
<223> Xaa is any amino acid

<220>
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<222> (19)..(19)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa is any amino acid

<400> 33

Glu Phe Xaa Cys Xaa Asn Gly Xaa Cys Ile Pro Xaa Xaa Trp Xaa Cys
1 5 10 15

Asp Gly Xaa Asp Asp Cys Gly Asp Xaa Ser Asp Glu
20 25

<210> 34
<211> 74
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<220>
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<222> (12)..(22)
<223> Xaa is any amino acid

<220>
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<222> (13)..(21)
<223> Xaa may be absent

<220>
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<222> (41)..(48)
<223> Xaa is any amino acid

<220>
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<222> (42)..(46)
<223> Xaa may be absent

<220>
<221> MISC_FEATURE
<222> (61)..(61)
<223> Xaa is any amino acid

<400> 34

Gly Val Thr Leu Phe Val Ala Leu Tyr Asp Tyr Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Leu Ser Phe His Lys Gly Glu Lys Phe Gln
20 25 30

Ile Leu Ser Thr His Glu Tyr Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Trp Glu Ala Arg Ser Leu Thr Thr Gly Glu Thr Gly Xaa Ile Pro Ser

50 55 60

Asn Tyr Val Ala Pro Val Asp Ser Ile Gln
65 70

<210> 35
<211> 68
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<220>
<221> MISC_FEATURE
<222> (12)..(22)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (16)..(21)
<223> Xaa is optionally absent

<400> 35

Gly Val Thr Leu Phe Val Ala Leu Tyr Asp Tyr Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Leu Ser Phe His Lys Gly Glu Lys Phe Gln
20 25 30

Ile Leu Ser Thr His Glu Tyr Glu Asp Trp Trp Glu Ala Arg Ser Leu
35 40 45

Thr Thr Gly Glu Thr Gly Tyr Ile Pro Ser Asn Tyr Val Ala Pro Val
50 55 60

Asp Ser Ile Gln
65

<210> 36
<211> 60

<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is one of: Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa is one of: Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> Xaa is one of: Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is one of: Ala, Gly, Glu, Asp, His, Thr

<220>
<221> MISC_FEATURE
<222> (17)..(17)
<223> Xaa is one of: Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<220>
<221> MISC_FEATURE
<222> (18)..(18)
<223> Xaa is one of: Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> Xaa is one of: Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<220>
<221> MISC_FEATURE

<222> (34)..(34)
<223> Xaa is one of: Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> Xaa is one of: Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Xaa is one of: Gly, and Ala

<400> 36

Met His Ser Phe Cys Ala Phe Lys Ala Asp Xaa Gly Xaa Cys Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Arg Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu Glu
20 25 30

Phe Xaa Tyr Gly Gly Cys Xaa Xaa Asn Gln Asn Arg Phe Glu Ser Leu
35 40 45

Glu Glu Cys Lys Lys Met Cys Thr Arg Asp Gly Ala
50 55 60

<210> 37
<211> 32
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (9)..(9)

<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (12)..(14)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (14)..(14)
<223> Xaa is optionally absent

<220>
<221> MISC_FEATURE
<222> (18)..(18)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (22)..(22)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (27)..(27)
<223> Xaa is any amino acid

<400> 37

Lys Leu Pro Pro Gly Trp Xaa Lys Xaa Trp Ser Xaa Xaa Xaa Gly Arg
1 5 10 15

Val Xaa Tyr Xaa Asn Xaa Ile Thr Xaa Ala Xaa Gln Trp Glu Arg Pro
20 25 30

<210> 38
<211> 31
<212> PRT

<213> Artificial sequence

<220>
<223> artificial construct

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (14)..(14)
<223> Xaa is Gly that is optionally absent

<220>
<221> MISC_FEATURE
<222> (17)..(17)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (26)..(26)
<223> Xaa is any amino acid

<400> 38

Lys Leu Pro Pro Gly Trp Xaa Lys Xaa Trp Ser Xaa Xaa Xaa Arg Val
1 5 10 15

Xaa Tyr Xaa Asn Xaa Ile Thr Xaa Ala Xaa Gln Trp Glu Arg Pro
20 25 30

<210> 39
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 39

Gly Gly Gly Gly Thr Gly Gly Gly Gly Ser
1 5 10

<210> 40
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 40

Gly Gly Gly Gly Asp Gly Gly Gly Gly Ser
1 5 10

<210> 41
<211> 668
<212> PRT
<213> Homo sapiens

<400> 41

Asp Ser Ser Lys Trp Val Phe Glu His Pro Glu Thr Leu Tyr Ala Trp
1 5 10 15

```
Glu Gly Ala Cys Val Trp Ile Pro Cys Thr Tyr Arg Ala Leu Asp Gly
            20                  25                  30

Asp Leu Glu Ser Phe Ile Leu Phe His Asn Pro Glu Tyr Asn Lys Asn
        35                  40                  45

Thr Ser Lys Phe Asp Gly Thr Arg Leu Tyr Glu Ser Thr Lys Asp Gly
    50                  55                  60

Lys Val Pro Ser Glu Gln Lys Arg Val Gln Phe Leu Gly Asp Lys Asn
65                  70                  75                  80

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

Gln Leu Gly Leu Arg Met Glu Ser Lys Thr Glu Lys Trp Met Glu Arg
            100                 105                 110

Ile His Leu Asn Val Ser Glu Arg Pro Phe Pro Pro His Ile Gln Leu
        115                 120                 125

Pro Pro Glu Ile Gln Glu Ser Gln Glu Val Thr Leu Thr Cys Leu Leu
    130                 135                 140

Asn Phe Ser Cys Tyr Gly Tyr Pro Ile Gln Leu Gln Trp Leu Leu Glu
145                 150                 155                 160

Gly Val Pro Met Arg Gln Ala Ala Val Thr Ser Thr Ser Leu Thr Ile
                165                 170                 175

Lys Ser Val Phe Thr Arg Ser Glu Leu Lys Phe Ser Pro Gln Trp Ser
            180                 185                 190

His His Gly Lys Ile Val Thr Cys Gln Leu Gln Asp Ala Asp Gly Lys
        195                 200                 205

Phe Leu Ser Asn Asp Thr Val Gln Leu Asn Val Lys His Thr Pro Lys
    210                 215                 220
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Leu Glu Ile Lys Val Thr Pro Ser Asp Ala Ile Val Arg Glu Gly Asp
225                 230                 235                 240

Ser Val Thr Met Thr Cys Glu Val Ser Ser Ser Asn Pro Glu Tyr Thr
                245                 250                 255

Thr Val Ser Trp Leu Lys Asp Gly Thr Ser Leu Lys Lys Gln Asn Thr
            260                 265                 270

Phe Thr Leu Asn Leu Arg Glu Val Thr Lys Asp Gln Ser Gly Lys Tyr
        275                 280                 285

Cys Cys Gln Val Ser Asn Asp Val Gly Pro Gly Arg Ser Glu Glu Val
    290                 295                 300

Phe Leu Gln Val Gln Tyr Ala Pro Glu Pro Ser Thr Val Gln Ile Leu
305                 310                 315                 320

His Ser Pro Ala Val Glu Gly Ser Gln Val Glu Phe Leu Cys Met Ser
                325                 330                 335

Leu Ala Asn Pro Leu Pro Thr Asn Tyr Thr Trp Tyr His Asn Gly Lys
            340                 345                 350

Glu Met Gln Gly Arg Thr Glu Glu Lys Val His Ile Pro Lys Ile Leu
        355                 360                 365

Pro Trp His Ala Gly Thr Tyr Ser Cys Val Ala Glu Asn Ile Leu Gly
    370                 375                 380

Thr Gly Gln Arg Gly Pro Gly Ala Glu Leu Asp Val Gln Tyr Pro Pro
385                 390                 395                 400

Lys Lys Val Thr Thr Val Ile Gln Asn Pro Met Pro Ile Arg Glu Gly
                405                 410                 415
```

```
Asp Thr Val Thr Leu Ser Cys Asn Tyr Asn Ser Ser Asn Pro Ser Val
            420                 425                 430

Thr Arg Tyr Glu Trp Lys Pro His Gly Ala Trp Glu Glu Pro Ser Leu
        435                 440                 445

Gly Val Leu Lys Ile Gln Asn Val Gly Trp Asp Asn Thr Thr Ile Ala
    450                 455                 460

Cys Ala Ala Cys Asn Ser Trp Cys Ser Trp Ala Ser Pro Val Ala Leu
465                 470                 475                 480

Asn Val Gln Tyr Ala Pro Arg Asp Val Arg Val Arg Lys Ile Lys Pro
                485                 490                 495

Leu Ser Glu Ile His Ser Gly Asn Ser Val Ser Leu Gln Cys Asp Phe
            500                 505                 510

Ser Ser Ser His Pro Lys Glu Val Gln Phe Phe Trp Glu Lys Asn Gly
        515                 520                 525

Arg Leu Leu Gly Lys Glu Ser Gln Leu Asn Phe Asp Ser Ile Ser Pro
    530                 535                 540

Glu Asp Ala Gly Ser Tyr Ser Cys Trp Val Asn Asn Ser Ile Gly Gln
545                 550                 555                 560

Thr Ala Ser Lys Ala Trp Thr Leu Glu Val Leu Tyr Ala Pro Arg Arg
                565                 570                 575

Leu Arg Val Ser Met Ser Pro Gly Asp Gln Val Met Glu Gly Lys Ser
            580                 585                 590

Ala Thr Leu Thr Cys Glu Ser Asp Ala Asn Pro Pro Val Ser His Tyr
        595                 600                 605

Thr Trp Phe Asp Trp Asn Asn Gln Ser Leu Pro Tyr His Ser Gln Lys
    610                 615                 620
```

```
Leu Arg Leu Glu Pro Val Lys Val Gln His Ser Gly Ala Tyr Trp Cys
625                 630                 635                 640


Gln Gly Thr Asn Ser Val Gly Lys Gly Arg Ser Pro Leu Ser Thr Leu
                645                 650                 655


Thr Val Tyr Tyr Ser Pro Glu Thr Ile Gly Arg Arg
            660                 665


<210>  42
<211>  630
<212>  PRT
<213>  Homo sapiens

<400>  42

Thr Gln Val Cys Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser
1               5                   10                  15


Pro Glu Thr His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys Gln
            20                  25                  30


Val Val Gln Gly Asn Leu Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser
        35                  40                  45


Leu Ser Phe Leu Gln Asp Ile Gln Glu Val Gln Gly Tyr Val Leu Ile
    50                  55                  60


Ala His Asn Gln Val Arg Gln Val Pro Leu Gln Arg Leu Arg Ile Val
65                  70                  75                  80


Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp
                85                  90                  95


Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser Pro
            100                 105                 110


Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys
```

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        115                 120                 125

Gly Gly Val Leu Ile Gln Arg Asn Pro Gln Leu Cys Tyr Gln Asp Thr
    130                 135                 140

Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala Leu Thr
145                 150                 155                 160

Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro Met
                165                 170                 175

Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln Ser
            180                 185                 190

Leu Thr Arg Thr Val Cys Ala Gly Gly Cys Ala Arg Cys Lys Gly Pro
        195                 200                 205

Leu Pro Thr Asp Cys Cys His Glu Gln Cys Ala Ala Gly Cys Thr Gly
    210                 215                 220

Pro Lys His Ser Asp Cys Leu Ala Cys Leu His Phe Asn His Ser Gly
225                 230                 235                 240

Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp Thr
                245                 250                 255

Phe Glu Ser Met Pro Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala Ser
            260                 265                 270

Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu Ser Thr Asp Val Gly Ser
        275                 280                 285

Cys Thr Leu Val Cys Pro Leu His Asn Gln Glu Val Thr Ala Glu Asp
    290                 295                 300

Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg Val Cys
305                 310                 315                 320
```

```
Tyr Gly Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr Ser
                325                 330                 335

Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser Leu
            340                 345                 350

Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala
        355                 360                 365

Pro Leu Gln Pro Glu Gln Leu Gln Val Phe Glu Thr Leu Glu Glu Ile
    370                 375                 380

Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp Leu
385                 390                 395                 400

Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu His Asn
                405                 410                 415

Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu Gly
            420                 425                 430

Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile His His
        435                 440                 445

Asn Thr His Leu Cys Phe Val His Thr Val Pro Trp Asp Gln Leu Phe
    450                 455                 460

Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro Glu Asp
465                 470                 475                 480

Glu Cys Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg Gly
                485                 490                 495

His Cys Trp Gly Pro Gly Pro Thr Gln Cys Val Asn Cys Ser Gln Phe
            500                 505                 510

Leu Arg Gly Gln Glu Cys Val Glu Glu Cys Arg Val Leu Gln Gly Leu
```

60
515 520 525

Pro Arg Glu Tyr Val Asn Ala Arg His Cys Leu Pro Cys His Pro Glu
530 535 540

Cys Gln Pro Gln Asn Gly Ser Val Thr Cys Phe Gly Pro Glu Ala Asp
545 550 555 560

Gln Cys Val Ala Cys Ala His Tyr Lys Asp Pro Pro Phe Cys Val Ala
565 570 575

Arg Cys Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp
580 585 590

Lys Phe Pro Asp Glu Glu Gly Ala Cys Gln Pro Cys Pro Ile Asn Cys
595 600 605

Thr His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro Ala Glu Gln
610 615 620

Arg Ala Ser Pro Leu Thr
625 630

<210> 43
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 43

Gly Gly Gly Gly Ser
1 5

<210> 44
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 44

Met Gly Ser Trp Tyr Glu Phe Ser Trp Arg Leu Gln Ala Ile His Gln
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Ala Tyr Ala Ala Gly Ile Arg
50 55 60

Gly Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 45
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 45

Met Gly Ser Trp His Glu Phe Thr Trp Arg Leu Ile Ala Ile Gln Gln
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Ala Tyr Ala Ala Gly Ile Arg
50 55 60

His His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 46
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 46

Met Gly Ser Trp Arg Glu Phe Ala Trp Arg Leu Val Ala Ile Asn Ser
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg His Tyr Ala Ala Ser Ile Arg
50 55 60

Asp Gly Leu Gln Ala Tyr Arg His Asn
65 70

<210> 47
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 47

Met Gly Ser Trp His Glu Phe Ala Trp Arg Leu Gln Ala Ile Asn Gln
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg His Tyr Ala Ala His Ile Arg
50 55 60

Asn Gly Leu Gln Ala Tyr Arg His Asn
65 70

<210> 48
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 48

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

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg His Tyr Ala Ala Gly Ile Arg
50 55 60

Asp Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 49
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 49

Met Gly Ser Trp Thr Glu Phe Ala Trp Arg Leu Gln Ala Ile His Gln
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Val Tyr Ala Ala Lys Ile Arg
50 55 60

Ile Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 50
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 50

Met Gly Ser Trp Ile Glu Phe Ala Trp Arg Leu Gln Ala Ile His Gln
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Glu Tyr Ala Ala Asn Ile Arg
50 55 60

Asp Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 51
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 51

Met Gly Ser Trp His Glu Phe Thr Trp Arg Leu Val Ala Ile Gln Gln
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Lys Phe Ala Ala Lys Ile Arg
50 55 60

Tyr Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 52
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 52

Met Gly Ser Trp His Glu Phe Thr Trp Arg Leu Ile Ala Ile Arg Glu
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Glu Tyr Ala Ala Ser Ile Arg
50 55 60

Asn Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 53
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 53

Met Gly Ser Trp Ile Glu Phe Ser Trp Arg Leu Glu Ala Ile Arg Gln
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Ser Tyr Ala Ala Arg Ile Arg
50 55 60

Gln Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 54
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 54

Met Gly Ser Trp Val Glu Phe Ser Trp Arg Leu Glu Ala Ile Arg Gln
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Ser Tyr Ala Ala Arg Ile Arg
50 55 60

Gln Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 55
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 55

Met Gly Ser Trp Val Glu Phe Ser Trp Arg Leu Glu Ala Ile Arg Gln
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Lys Tyr Ala Ala Arg Ile Arg
50 55 60

Gly Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 56
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 56

Met Gly Ser Trp Val Glu Phe Ala Trp Arg Leu Thr Ala Ile Asp Gln
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Phe Tyr Ala Ala Lys Ile Arg
50 55 60

Ser His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 57
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 57

Met Gly Ser Trp Val Glu Phe Ala Trp Arg Leu Glu Ala Ile Lys Gln
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Leu Tyr Ala Ala Lys Ile Arg
50 55 60

Arg Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 58
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 58

Met Gly Ser Trp Val Glu Phe Ala Trp Arg Leu Thr Ala Ile His Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Lys Tyr Ala Ala Lys Ile Arg
50 55 60

Lys Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 59
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 59

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

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Lys Pro Glu Val Glu Ala Leu Arg Ala Tyr Ala Ala Lys Ile Arg
50 55 60

Thr Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 60
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 60

Met Gly Ser Trp Ser Glu Phe Ala Trp Arg Leu Glu Ala Ile His Gln
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Leu Phe Ala Ala Gln Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 61
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 61

Met Gly Ser Trp Asn Glu Phe Ala Trp Arg Leu Ile Ala Ile Asn Gln
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg His Phe Ala Ala Asn Ile Arg
50 55 60

Asn Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 62
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 62

Met Gly Ser Trp Thr Glu Phe Ala Trp Arg Leu Ile Ala Ile Asp Gln
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Glu Leu Ala Ala Glu Ile Arg
50 55 60

Phe His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 63
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 63

Met Gly Ser Trp Ser Glu Phe Met Asn Arg Leu Asp Ala Ile Thr Tyr
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg His Tyr Ala Ala Gln Ile Arg
50 55 60

Asp Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 64
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 64

Met Gly Ser Trp Thr Glu Phe Met Glu Arg Leu Asp Ala Ile Ser Tyr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Asp Tyr Ala Ala Ile Ile Arg
50 55 60

Asn Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 65
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 65

Met Gly Ser Trp Ala Glu Phe Met Asp Arg Leu Asp Ala Ile Thr Tyr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Gly Tyr Ala Ala Ile Ile Arg
50 55 60

Ser Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 66
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 66

Met Gly Ser Trp Ile Glu Phe Gln Glu Arg Leu Asp Ala Ile Phe Tyr
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Asp Ala Ala Ala Thr Ile Arg
50 55 60

Arg Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 67
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 67

Met Gly Ser Trp Ile Glu Phe Gln Gln Arg Leu Asp Ala Ile Phe Tyr
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Asp Met Ala Ala Ile Ile Arg
50 55 60

Lys Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 68
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 68

Met Gly Ser Trp Tyr Glu Phe Gln Ser Arg Leu Asp Ala Ile Phe Tyr
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ala Ala Ala Ser Ile Arg
50 55 60

Thr Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 69
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 69

Met Gly Ser Trp Ser Glu Phe Ile Asp Arg Leu Asp Ala Ile Thr Tyr
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Trp Tyr Ala Gly Val Ile Arg
50 55 60

Glu Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 70
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 70

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Tyr Ala Ile Asn Gln
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Trp Tyr Ala Ala Phe Ile Arg
50 55 60

Ala Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 71
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 71

Met Gly Ser Trp Tyr Glu Phe Tyr Asp Arg Leu Asp Ala Ile Val His
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Trp Tyr Ala Ala Met Ile Arg
50 55 60

Val Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 72
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 72

Met Gly Ser Trp Val Glu Phe Gln Asp Arg Leu Glu Ala Ile Thr Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Met Ile Arg
50 55 60

Val Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 73
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 73

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

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Trp Gln Ala Ala Met Ile Arg
50 55 60

Tyr Thr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 74
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 74

Met Gly Ser Trp Phe Glu Phe Gln His Arg Leu Glu Ala Ile Ser Met
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Trp Gln Ala Ala Tyr Ile Arg
50 55 60

Val Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 75
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 75

Met Gly Ser Trp Val Glu Phe Gln Ser Arg Leu Glu Ala Ile Ala Thr
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Trp Gln Ala Ala Trp Ile Arg
50 55 60

Met Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 76
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 76

Met Gly Ser Trp Glu Glu Phe Gln Tyr Arg Leu Gly Ala Ile Ala Ala
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Trp Gln Ala Ala Met Ile Arg
50 55 60

Phe Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 77
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 77

Met Gly Ser Trp Tyr Glu Phe Gln Val Arg Leu Gln Ala Ile Ser Trp
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn His Glu Val Glu Glu Leu Arg Ile Gln Ala Ala Leu Ile Arg
50 55 60

Val Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 78
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 78

Met Gly Ser Trp Val Glu Phe Arg Ser Arg Leu Glu Ala Ile Ser Asn
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Thr Thr Ala Ala Leu Ile Arg
50 55 60

Val Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 79
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 79

Met Gly Ser Trp Val Glu Phe Lys Ala Arg Leu Glu Ala Ile Ser Ser
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Leu Ile Arg
50 55 60

Val Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 80
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 80

Met Gly Ser Trp Ser Glu Phe Tyr Thr Arg Leu Glu Ala Ile Asn Asn
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Thr Ala Ala Leu Ile Arg
50 55 60

Ile Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 81
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 81

Met Gly Ser Trp Ala Glu Phe Tyr His Arg Leu Asp Ala Ile Ser Ser
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Thr Ala Ala Leu Ile Arg
50 55 60

Ile Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 82
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 82

Met Gly Ser Trp Thr Glu Phe Ala Ser Arg Leu Val Ala Ile Arg Gln
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Ile Ile Arg
50 55 60

Val Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 83
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 83

Met Gly Ser Trp Ser Glu Phe Asp Gln Arg Leu Ala Ala Ile Tyr Gln
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Leu Ile Arg
50 55 60

Val Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 84
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 84

Met Gly Ser Trp Val Glu Phe His Asn Arg Leu Ser Ala Ile Ser Asp
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Leu Ile Arg
50 55 60

Val Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 85
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 85

Met Gly Ser Trp Asn Glu Phe Glu Asp Arg Leu Ser Ala Ile Ser Ala
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Leu Ile Arg
50 55 60

Val Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 86
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 86

Met Gly Ser Trp Val Glu Phe Glu Tyr Arg Leu Val Ala Ile Phe Asp
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Gln Ala Ala Leu Ile Arg
50 55 60

Val Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 87
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 87

Met Gly Ser Trp Val Glu Phe Gln Gly Arg Leu Gly Ala Ile His Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Leu Ile Arg
50 55 60

Val Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 88
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 88

Met Gly Ser Trp Tyr Glu Phe Ser Met Arg Leu Ser Ala Ile Trp Glu
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Gln Ala Ala Leu Ile Arg
50 55 60

Phe Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 89
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 89

Met Gly Ser Trp Thr Glu Phe Ser Gln Arg Leu Gly Ala Ile Ser Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Leu Ile Arg
50 55 60

Phe Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 90
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 90

Met Gly Ser Trp Thr Glu Phe His Asp Arg Leu Glu Ala Ile Thr His
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Leu Leu Arg
50 55 60

Val Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 91
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 91

Met Gly Ser Trp Thr Glu Phe Glu His Arg Leu Glu Ala Ile Ala Gly
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Leu Ile Arg
50 55 60

Phe Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 92
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 92

Met Gly Ser Trp Thr Glu Phe Ala Asn Arg Leu Glu Ala Ile Asn Ala
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

90
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe Ser Ala Ala Leu Ile Arg
50 55 60

Val Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 93
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 93

Met Gly Ser Trp Glu Glu Phe Asp Arg Arg Leu Tyr Ala Ile Ala Arg
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Gln Ala Ala Leu Ile Arg
50 55 60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 94
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 94

Met Gly Ser Trp Ile Glu Phe His Gln Arg Leu Glu Ala Ile Val Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Gln Ala Ala Leu Ile Arg
50 55 60

Val Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 95
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 95

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Lys Ala Ile Ala Asp
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Thr Glu Ala Ala Ile Ile Arg
50 55 60

Val Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 96
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 96

Met Gly Ser Trp Trp Glu Phe Glu Asp Arg Leu Ser Ala Ile Met Glu
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Arg Ala Ala Ile Ile Arg
50 55 60

Val Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 97
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 97

Met Gly Ser Trp Val Glu Phe Glu Glu Arg Leu Ala Ala Ile Ala Thr
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Trp Arg Ala Ala Ile Ile Arg
50 55 60

Val Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 98
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 98

Met Gly Ser Trp Ser Glu Phe Arg Gly Arg Leu Gln Ala Ile His Ser
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ser Ala Ala Ile Ile Arg
50 55 60

Ile Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 99
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 99

Met Gly Ser Trp Thr Glu Phe Arg Asp Arg Leu Gly Ala Ile Tyr His
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Gln Ala Ala Ile Ile Arg
50 55 60

Val Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 100
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 100

Met Gly Ser Trp Val Glu Phe Tyr His Arg Leu Glu Ala Ile Arg Tyr
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Val Ala Ala Val Ile Arg
50 55 60

Tyr Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 101
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 101

Met Gly Ser Trp Val Glu Phe Tyr Asp Arg Leu Glu Ala Ile Arg Tyr
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Ile Ala Ala Val Ile Arg
50 55 60

Tyr Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 102
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 102

Met Gly Ser Trp Val Glu Phe Tyr Asp Arg Leu Ala Ala Ile Arg Lys
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe Arg Ala Ala Leu Ile Arg
50 55 60

Ile Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 103
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 103

Met Gly Ser Trp Glu Glu Phe Ser Glu Arg Leu Glu Ala Ile Ser Ile
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Val Ser Ala Ala Ile Ile Arg
50 55 60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 104
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 104

Met Gly Ser Trp Ser Glu Phe Ser Asp Arg Leu His Ala Ile Ser Asp
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Ile Gln Ala Ala Ile Ile Arg
50 55 60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 105
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 105

Met Gly Ser Trp Ile Glu Phe Ser His Arg Leu Glu Ala Ile Val Asp
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Asn Thr Ala Ala Ile Ile Arg
50 55 60

Val Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 106
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 106

Met Gly Ser Trp Glu Glu Phe Ser Asp Arg Leu Glu Ala Ile Leu Arg
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Phe Ala Ala Ala Ile Ile Arg
50 55 60

Val Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 107
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 107

Met Gly Ser Trp Met Glu Phe Ser His Arg Leu Asp Ala Ile His Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Phe Ala Ala Ala Ile Ile Arg
50 55 60

Val Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 108
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 108

Met Gly Ser Trp Ser Glu Phe Gln Gln Arg Leu His Ala Ile Arg Thr
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe Glu Ala Ala Ile Ile Arg
50 55 60

Val Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 109
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  109

Met Gly Ser Trp Tyr Glu Phe Gln Asn Arg Leu Gly Ala Ile Asn Arg
1               5                   10                  15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe Glu Ala Ala Ile Ile Arg
    50                  55                  60

Val Met Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  110
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  110

Met Gly Ser Trp Gln Glu Phe Thr Gly Arg Leu His Ala Ile Arg His
1               5                   10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe Glu Ala Ala Tyr Ile Arg
    50                  55                  60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 111
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 111

Met Gly Ser Trp Thr Glu Phe Asp His Arg Leu Gly Ala Ile Trp Glu
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe His Ala Ala Ile Ile Arg
50 55 60

Ile Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 112
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 112

Met Gly Ser Trp Thr Glu Phe His Val Arg Leu Ser Ala Ile Trp Asp
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe His Ala Ala Ile Ile Arg
50 55 60

Ile Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 113
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 113

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

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe His Ala Ala Met Ile Arg
50 55 60

Ile Thr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 114
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 114

Met Gly Ser Trp Thr Glu Phe His Glu Arg Leu Gln Ala Ile Trp Phe
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe Arg Ala Ala Ile Ile Arg
50 55 60

Leu Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 115
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 115

Met Gly Ser Trp Asn Glu Phe Ser Gly Arg Leu Thr Ala Ile Lys Asp
1 5 10 15

Arg Leu Ala Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Phe Arg Ala Ala Val Ile Arg
50 55 60

Leu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 116
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 116

Met Gly Ser Trp Val Glu Phe Asp Glu Arg Leu Val Ala Ile Trp Phe
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Ala Arg Ala Ala Tyr Ile Arg
50 55 60

Ile Trp Leu Gln Ala Tyr Arg His Asn
65 70

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

<220>
<223> artificial construct

<400> 117

Met Gly Ser Trp Ser Glu Phe Gly Gln Arg Leu Ser Ala Ile Trp Glu
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Ala Asp Ala Ala Phe Ile Arg
50 55 60

Ile Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 118
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 118

Met Gly Ser Trp Tyr Glu Phe Glu Asp Arg Leu Val Ala Ile Trp Ile
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr Asn Ala Ala Phe Ile Arg
50 55 60

Gly Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 119
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 119

Met Gly Ser Trp Tyr Glu Phe Gly Asp Arg Leu Ser Ala Ile Trp Glu
1 5 10 15

Arg Leu Ala Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Thr His Ala Ala Glu Ile Arg
50 55 60

Thr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 120
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 120

Met Gly Ser Trp His Glu Phe Tyr Tyr Arg Leu Glu Ala Ile Glu Gln
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Phe Asp Ala Ala Leu Ile Arg
50 55 60

Ile Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 121
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 121

Met Gly Ser Trp Ser Glu Phe Glu Glu Arg Leu Ala Ala Ile Gly Ser
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Phe Asp Ala Ala Leu Ile Arg
50 55 60

Ile Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 122
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 122

Met Gly Ser Trp Leu Glu Phe His Tyr Arg Leu His Ala Ile Gln Phe
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg His Ile Ala Ala Leu Ile Arg
50 55 60

Asn Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 123
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 123

Met Gly Ser Trp Gln Glu Phe Tyr Asn Arg Leu Glu Ala Ile His Met
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Gly Leu Arg Ser Asp Ala Ala Pro Ile Arg
50 55 60

Asp Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 124
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 124

Met Gly Ser Trp Asn Glu Phe His His Arg Leu Trp Ala Ile Phe Asp
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Lys Met Ala Ala Gly Ile Arg
50 55 60

Gly Gly Leu Gln Ala Tyr Arg His Asn
65 70

<210> 125
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 125

Met Gly Ser Trp Tyr Glu Phe His Tyr Arg Leu Lys Ala Ile Asn Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Tyr Ser Ala Ala Met Ile Arg
50 55 60

His Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 126
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 126

Met Gly Ser Trp Thr Glu Phe His Gln Arg Leu Gly Ala Ile His Ala
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Phe Ser Ala Ala Phe Ile Arg
50 55 60

Leu Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 127
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 127

Met Gly Ser Trp Phe Glu Phe Gln Tyr Arg Leu Glu Ala Ile Phe Tyr
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Lys Pro Glu Val Glu Glu Leu Arg Val Arg Ala Ala Leu Ile Arg
50 55 60

His Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 128
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 128

Met Gly Ser Trp Val Glu Phe His Ala Arg Leu Asp Ala Ile Tyr Thr
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Val Leu Ala Ala His Ile Arg
50 55 60

Ile Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 129
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 129

Met Gly Ser Trp Val Glu Phe Gly Thr Arg Leu Ser Ala Ile Tyr Asn
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Phe Glu Ala Ala Ile Ile Arg
50 55 60

Ile Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 130
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 130

Met Gly Ser Trp Val Glu Phe Thr His Arg Leu Asp Ala Ile Tyr Ile
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg His Glu Ala Ala Val Ile Arg
50 55 60

Glu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 131
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 131

Met Gly Ser Trp Val Glu Phe His Gly Arg Leu Ala Ala Ile Tyr Val
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Tyr His Ala Ala Met Ile Arg
50 55 60

Arg Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 132
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 132

Met Gly Ser Trp Val Glu Phe Asp Arg Arg Leu Val Ala Ile Tyr Ile
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Asp Asp Ala Ala Leu Ile Arg
50 55 60

Leu Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 133
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 133

Met Gly Ser Trp Val Glu Phe Asp Arg Arg Leu Val Ala Ile Tyr Ile
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Asp Ala Ala Thr Ile Arg
50 55 60

Glu Thr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 134
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 134

Met Gly Ser Trp Leu Glu Phe Asp Arg Arg Leu Thr Ala Ile Tyr Leu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Glu Asp Ala Ala Met Ile Arg
50 55 60

Asp Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 135
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 135

Met Gly Ser Trp Ile Glu Phe Asp Arg Arg Leu Leu Ala Ile His Val
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Ala Asp Ala Ala Lys Ile Arg
50 55 60

Met Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 136
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 136

Met Gly Ser Trp Ile Glu Phe Asp Arg Arg Leu Ile Ala Ile Trp Ile
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Ser Asp Ala Ala Asp Ile Arg
50 55 60

Gln Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 137
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 137

Met Gly Ser Trp Val Glu Phe Asp Arg Arg Leu Ile Ala Ile Trp Val
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Ser Asp Ala Ala Met Ile Arg
50 55 60

Glu His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 138
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 138

Met Gly Ser Trp Tyr Glu Phe His Thr Arg Leu Ile Ala Ile Tyr Val
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gly Asp Ala Ala Lys Ile Arg
50 55 60

Gly Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 139
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 139

Met Gly Ser Trp Ser Glu Phe Ser Thr Arg Leu Ser Ala Ile Tyr Val
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Asn Lys Ala Ala Ser Ile Arg
50 55 60

Lys Thr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 140
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 140

Met Gly Ser Trp Val Glu Phe Arg Tyr Arg Leu Gly Ala Ile Tyr His
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Asp Arg Ala Ala Thr Ile Arg
50 55 60

Arg Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 141
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 141

Met Gly Ser Trp Asn Glu Phe Arg Asn Arg Leu Gly Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Ala His Ala Ala Ile Ile Arg
50 55 60

Ser Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 142
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 142

Met Gly Ser Trp His Glu Phe Arg Asn Arg Leu Gly Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

120
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Ala Arg Ala Ala Met Ile Arg
50 55 60

Ser Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 143
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 143

Met Gly Ser Trp Thr Glu Phe Tyr Gln Arg Leu Glu Ala Ile Asn Phe
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Asp Lys Ala Ala Leu Ile Arg
50 55 60

Leu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 144
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 144

Met Gly Ser Trp Asn Glu Phe Tyr Asn Arg Leu His Ala Ile Asn Leu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Glu His Ala Ala Ile Ile Arg
50 55 60

Gln Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 145
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 145

Met Gly Ser Trp Glu Glu Phe Tyr Gly Arg Leu Ser Ala Ile Gln Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Met His Ala Ala Val Ile Arg
50 55 60

Arg Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 146
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 146

Met Gly Ser Trp Gly Glu Phe Asn Leu Arg Leu Val Ala Ile His Val
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Ser Gln Ala Ala Asn Ile Arg
50 55 60

Ala Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 147
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 147

Met Gly Ser Trp Gly Glu Phe Ser Asp Arg Leu Glu Ala Ile Asn Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Trp Gln Ala Ala Phe Ile Arg
50 55 60

Ala Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 148
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 148

Met Gly Ser Trp Met Glu Phe Gln Gly Arg Leu Pro Ala Ile Leu Ala
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Trp Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 149
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 149

Met Gly Ser Trp Met Glu Phe Glu Gly Arg Leu Pro Ala Ile Leu Ala
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Trp Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 150
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 150

Met Gly Ser Trp Phe Glu Phe Gln Asn Arg Leu Gln Ala Ile Leu Phe
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Leu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 151
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 151

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

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Asp Ser Ala Ala Tyr Ile Arg
50 55 60

Leu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 152
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 152

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

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Asp Gln Ala Ala Tyr Ile Arg
50 55 60

Leu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 153
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 153

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

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Phe Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 154
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 154

Met Gly Ser Trp Ile Glu Phe Asp Thr Arg Leu Ala Ala Ile Val His
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Tyr Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 155
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 155

Met Gly Ser Trp Ile Glu Phe Asp Tyr Arg Leu Lys Ala Ile Leu His
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Gly Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Phe Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 156
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 156

Met Gly Ser Trp Tyr Glu Phe Glu Asp Arg Leu Leu Ala Ile Lys Val
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Asp Gln Ala Ala Tyr Ile Arg
50 55 60

Phe Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 157
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 157

Met Gly Ser Trp Tyr Glu Phe Gln Asp Arg Leu Ser Ala Ile Thr Thr
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Phe Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 158
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 158

Met Gly Ser Trp Glu Glu Phe Asp Asp Arg Leu Asn Ala Ile Val Tyr
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Asp Gln Ala Ala Tyr Ile Arg
50 55 60

Leu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 159
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 159

Met Gly Ser Trp Val Glu Phe Glu Gln Arg Leu His Ala Ile Val Val
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Gly
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Asp Gln Ala Ala Tyr Ile Arg
50 55 60

Phe Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 160
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 160

Met Gly Ser Trp Val Glu Phe Glu Trp Arg Leu Glu Ala Ile Val Val
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Tyr Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 161
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 161

Met Gly Ser Trp Tyr Glu Phe Glu His Arg Leu Lys Ala Ile Val Ser
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Tyr Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 162
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 162

Met Gly Ser Trp Met Glu Phe Lys His Arg Leu Ala Ala Ile Thr Phe
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Asp Lys Ala Ala Tyr Ile Arg
50 55 60

Leu Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 163
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 163

Met Gly Ser Trp Met Glu Phe Glu Gly Arg Leu His Ala Ile Lys Arg
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Asp Gln Ala Ala Tyr Ile Arg
50 55 60

Leu Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 164
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 164

Met Gly Ser Trp Ser Glu Phe Val Phe Arg Leu Asp Thr Ile Lys Ser
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Asp Gln Ala Ala Tyr Ile Arg
50 55 60

Leu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 165
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 165

Met Gly Ser Trp Tyr Glu Phe Asp Glu Arg Leu Ser Ala Ile Lys Leu
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Ala Gln Ala Ala Tyr Ile Arg
50 55 60

Ala Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 166
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 166

Met Gly Ser Trp Met Glu Phe Asp Glu Arg Leu Trp Ala Ile Lys Lys
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg His Gln Ala Ala Tyr Ile Arg
50 55 60

Met Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 167
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 167

Met Gly Ser Trp His Glu Phe Asp Gly Arg Leu Ser Ala Ile Lys Arg
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

135

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Asp Gln Ala Ala Tyr Ile Arg
50 55 60

Tyr Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 168
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 168

Met Gly Ser Trp Tyr Glu Phe Asp Gly Arg Leu Gln Ala Ile Ile Ala
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Phe Arg Ala Ala Tyr Ile Arg
50 55 60

Trp Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 169
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 169

Met Gly Ser Trp Phe Glu Phe Asp Lys Arg Leu Tyr Ala Ile Ile His
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Lys Ala Ala Ile Ile Arg
50 55 60

Leu Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 170
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 170

Met Gly Ser Trp Val Glu Phe Asp Asn Arg Leu Tyr Ala Ile Val Asp
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Gln Lys Ala Ala Tyr Ile Arg
50 55 60

Leu Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 171
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 171

Met Gly Ser Trp Ile Glu Phe His Gln Arg Leu Asn Ala Ile Phe Asn
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg His His Ala Ala Tyr Ile Arg
50 55 60

Glu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 172
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 172

Met Gly Ser Trp Asn Glu Phe Arg Leu Arg Leu Trp Ala Ile Thr Glu
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Cys Leu Arg Ala Glu Ala Ala Trp Ile Arg
50 55 60

Thr Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 173
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 173

Met Gly Ser Trp Tyr Glu Phe Trp Leu Arg Leu Ser Ala Ile Ser Tyr
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Lys Glu Ala Ala Glu Ile Arg
50 55 60

Ser Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 174
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 174

Met Gly Ser Trp Tyr Glu Phe Gln Leu Arg Leu Trp Ala Ile His Trp
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Met Arg Ala Ala Glu Ile Arg
50 55 60

Asn Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 175
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 175

Met Gly Ser Trp Tyr Glu Phe Ala His Arg Leu Glu Ala Ile Glu Trp
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Gln Tyr Ala Ala Ala Ile Arg
50 55 60

Asn Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 176
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 176

Met Gly Ser Trp Tyr Glu Phe Asp Thr Arg Leu Gly Ala Ile Arg Asn
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Phe Gln Ala Ala Tyr Ile Arg
50 55 60

Phe Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 177
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 177

Met Gly Ser Trp Tyr Glu Phe Trp Val Arg Leu Thr Ala Ile Arg Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Gln Ala Ala Ser Ile Arg
50 55 60

Trp Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 178
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 178

Met Gly Ser Trp Phe Glu Phe Asp Arg Arg Leu Lys Ala Ile Asp Arg
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Met Gln Ala Ala Ile Ile Arg
50 55 60

Asn Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 179
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 179

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

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Trp His Ala Ala Tyr Ile Arg
50 55 60

Gly Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 180
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 180

Met Gly Ser Trp Ala Glu Phe Trp Asp Arg Leu Asp Ala Ile Asp Ser
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu Trp Ala Ala Tyr Ile Arg
50 55 60

Gly Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 181
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 181

Met Gly Ser Trp Ala Glu Phe Asp Leu Arg Leu Arg Ala Ile Ala Lys
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Leu Asp Ala Ala Tyr Ile Arg
50 55 60

Gly Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 182
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 182

Met Gly Ser Trp Ser Glu Phe Trp Asp Arg Leu Tyr Ala Ile Arg Ile
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Ser Val Ala Ala Arg Ile Arg
50 55 60

Asn Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 183
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 183

Met Gly Ser Trp Ser Glu Phe Trp Phe Arg Leu Gly Ala Ile Arg Asn
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Asp Val Ala Ala His Ile Arg
50 55 60

His Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 184
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 184

Met Gly Ser Trp Ser Glu Phe Asn Asp Arg Leu Asp Ala Ile Arg Trp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Val Ala Ala Thr Ile Arg
50 55 60

Tyr Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 185
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 185

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Ala Ala Ile Arg
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 186
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 186

Met Gly Ser Trp Ala Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Ala Ala Ile Arg
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 187
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 187

Met Gly Ser Trp Thr Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Ala Ala Ile Arg
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 188
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 188

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Lys Tyr Thr Ala Ala Ala Ile Arg
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 189
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 189

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Gln Tyr Thr Ala Ala Ala Ile Arg
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 190
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 190

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Ala Ala Ile Lys
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 191
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 191

Met Gly Ser Trp Ala Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Gln Tyr Thr Ala Ala Ala Ile Lys
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 192
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 192

Met Gly Ser Trp Thr Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

150
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Gln Tyr Thr Ala Ala Ala Ile Lys
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 193
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 193

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Val Ala Ala Val Ile Arg
50 55 60

His Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 194
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 194

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Ala Ser Ala Ala Ala Ile Arg
50 55 60

Ile Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 195
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 195

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Gly Ala Ile Arg Asp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Asn Thr Ala Ala Tyr Ile Arg
50 55 60

Thr Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 196
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 196

Met Gly Ser Trp Ser Glu Phe Trp Val Arg Leu Gly Ala Ile Arg Asp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Val Thr Ala Ala Gln Ile Arg
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 197
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 197

Met Gly Ser Trp Ser Glu Phe Trp Val Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Ala Thr Ile Arg
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 198
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 198

Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Ala Thr Ile Arg
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 199
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 199

Met Gly Ser Trp Ser Glu Phe Trp Val Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr Ile Arg
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 200
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 200

Met Gly Ser Trp Ser Glu Phe Trp Val Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Ala Thr Ile Lys
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 201
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 201

Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr Ile Lys
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 202
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 202

Met Gly Ser Trp Ser Glu Phe Trp Asp Arg Leu Thr Ala Ile Arg Val
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Ala His Ile Arg
50 55 60

Lys Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 203
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 203

Met Gly Ser Trp Thr Glu Phe Trp Thr Arg Leu Asn Ala Ile Tyr Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Phe Thr Ala Ala Ser Ile Arg
50 55 60

Met Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 204
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 204

Met Gly Ser Trp Phe Glu Phe Trp Asp Arg Leu Ala Ala Ile Arg Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Tyr Val Ala Ala Lys Ile Arg
50 55 60

Val Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 205
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 205

Met Gly Ser Trp Thr Glu Phe Trp Val Arg Leu Asn Ala Ile Arg Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg His Thr Ala Ala Ile Ile Arg
50 55 60

Asn Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 206
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 206

Met Gly Ser Trp Val Glu Phe Trp His Arg Leu Gly Ala Ile Tyr Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Arg Thr Ala Ala Leu Ile Arg
50 55 60

Gln Thr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 207
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 207

Met Gly Ser Trp Val Glu Phe Trp Asn Arg Leu Gly Ala Ile Tyr Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg His Thr Ala Ala Val Ile Arg
50 55 60

Leu Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 208
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 208

Met Gly Ser Trp Ser Glu Phe Trp Glu Arg Leu Glu Ala Ile Tyr Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Arg Thr Ala Ala Thr Ile Arg
50 55 60

Ser Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 209
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  209

Met Gly Ser Trp Glu Glu Phe Asp Asn Arg Leu Glu Ala Ile Phe Asp
1               5                  10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Glu Leu Arg Glu Phe Ala Ala Thr Ile Arg
    50                  55                  60

Ile Thr Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  210
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  210

Met Gly Ser Trp Met Glu Phe Trp Asp Arg Leu Tyr Ala Ile Glu Phe
1               5                  10                  15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Lys Leu Arg Arg Val Ala Ala Thr Ile Arg
    50                  55                  60

Asn Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 211
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 211

Met Gly Ser Trp Thr Glu Phe Trp Glu Arg Leu Tyr Ala Ile Glu Tyr
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Ser Val Ala Ala Thr Ile Arg
50 55 60

Tyr Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 212
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 212

Met Gly Ser Trp Asn Glu Phe Trp Glu Arg Leu Tyr Ala Ile Glu Leu
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Met Thr Ala Ala Tyr Ile Arg
50 55 60

Asn Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 213
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 213

Met Gly Ser Trp Tyr Glu Phe Trp Lys Arg Leu Tyr Ala Ile Glu Tyr
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Val Ala Ala Lys Ile Arg
50 55 60

Glu Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 214
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 214

Met Gly Ser Trp Thr Glu Phe Trp Ala Arg Leu Tyr Ala Ile Glu Met
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Arg Val Ala Ala Leu Ile Arg
50 55 60

Glu Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 215
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 215

Met Gly Ser Trp His Glu Phe Trp Asp Arg Leu Tyr Ala Ile Glu Phe
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Gln Val Ala Ala Lys Ile Arg
50 55 60

Trp His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 216
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 216

Met Gly Ser Trp Asp Glu Phe Glu Phe Arg Leu Gly Ala Leu Arg Trp
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Phe Gly Ala Ala His Ile Arg
50 55 60

His Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 217
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 217

Met Gly Ser Trp Thr Glu Phe Tyr His Arg Leu Tyr Ala Ile Arg Glu
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Phe Gly Ala Ala His Ile Arg
50 55 60

His Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 218
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 218

Met Gly Ser Trp Val Glu Phe Glu Thr Arg Leu Asp Ala Ile Arg Met
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Phe Gly Ala Ala His Ile Arg
50 55 60

Ala Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 219
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  219

Met Gly Ser Trp Gly Glu Phe Asp Val Arg Leu Phe Ala Ile Arg Glu
1               5                   10                  15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Gly Tyr Ala Ala Gln Ile Arg
    50                  55                  60

Ser Phe Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  220
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  220

Met Gly Ser Trp Val Glu Phe Asp Glu Arg Leu Ser Ala Ile Arg Glu
1               5                   10                  15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Leu Tyr Ala Ala Gln Ile Arg
    50                  55                  60

Val Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 221
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 221

Met Gly Ser Trp Ser Glu Phe Asp Gly Arg Leu Gly Ala Ile Trp Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Asp Arg Ala Ala Gln Ile Arg
50 55 60

Glu Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 222
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 222

Met Gly Ser Trp Gly Glu Phe Glu Gly Arg Leu His Ala Ile Arg Ser
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Gly Tyr Ala Ala Trp Ile Arg
50 55 60

Ala Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 223
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 223

Met Gly Ser Trp Gly Glu Phe Asn Gly Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Ala Tyr Ala Ala Ser Ile Arg
50 55 60

Ala Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 224
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  224

Met Gly Ser Trp Trp Glu Phe Thr Phe Arg Leu Ala Ala Ile Glu Phe
1               5                   10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Asp Leu Arg Ala Ile Ala Ala Glu Ile Arg
    50                  55                  60

Lys Ser Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  225
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  225

Met Gly Ser Trp Asp Glu Phe Gln Phe Arg Leu Ala Ala Ile Gly Phe
1               5                   10                  15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Val Leu Arg Arg Gln Ala Ala Arg Ile Arg
    50                  55                  60

His Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 226
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 226

Met Gly Ser Trp Tyr Glu Phe Val Thr Arg Leu His Ala Ile Asp His
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Asp Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Phe Tyr Ala Ala Gly Ile Arg
50 55 60

Met Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 227
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 227

Met Gly Ser Trp Ser Ile Glu Phe Trp Arg Leu Glu Ala Ile Lys Phe
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Val Glu Ala Ala Ala Ile Arg
50 55 60

Arg Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 228
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 228

Met Gly Ser Trp Gly Glu Phe Glu His Arg Leu Asp Pro Ser Thr Cys
1 5 10 15

Val Trp Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Arg Gly Ala Ala Val Ile Arg
50 55 60

His Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 229
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 229

Met Gly Ser Trp Ile Glu Phe Ala Met Arg Leu Glu Ala Ile Glu Asn
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu
20 25 30

Ser Met Ile Ala His Phe Glu Glu Leu Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ile His Glu Ala Phe Ala Ile His
50 55 60

Lys Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 230
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 230

Met Gly Ser Trp Asn Glu Phe Tyr Gln Arg Leu Glu Ala Ile Glu Asn
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Val Arg Ile Ala Leu Phe Glu Asp Met Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Lys Gln Glu Ala Ile Ala Ile Leu
50 55 60

Arg Glu Leu Ile Ala Tyr Arg His Asn
65 70

<210> 231
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 231

Met Gly Ser Trp Asn Glu Phe Tyr Asp Arg Leu Arg Ala Ile Lys Lys
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Glu Asp Ile Ala Gln Phe Glu Val Asp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu His Arg Glu Ala His Ala Ile Thr
50 55 60

His Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 232
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 232

Met Gly Ser Trp Gly Glu Phe Lys His Arg Leu Ala Leu Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu

20 25 30

Asp Trp Ile Ala Val Phe Glu Val Gln Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 233
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 233

Met Gly Ser Trp Tyr Glu Phe Lys His Arg Leu Ala Ile Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Lys Phe Glu
20 25 30

Ala Trp Ile Ala Glu Phe Glu Met Ile Leu Gln Arg Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 234
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 234

Met Gly Ser Trp Tyr Glu Phe Lys His Arg Leu Ala Ile Ile Lys Trp
1 5 10 15

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

Gln Tyr Ile Ala Asp Phe Glu Gly Thr Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 235
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 235

Met Gly Ser Trp Tyr Asn Phe Lys His Arg Leu Ala Ile Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Arg Phe Glu
20 25 30

Asn Phe Ile Ala Asn Phe Glu Thr Gln Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 236
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 236

Met Gly Ser Trp Phe Gln Phe Lys His Arg Leu Ala Ile Ile Lys Trp
1 5 10 15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Gln Trp Ile Ala Asp Phe Glu His Gln Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 237
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 237

Met Gly Ser Trp Tyr Asn Phe Lys His Arg Leu Ala Ile Ile Lys Trp
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu

20 25 30

Val Trp Ile Ala Asp Phe Glu His Gln Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 238
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 238

Met Gly Ser Trp Asp Ala Phe Lys His Arg Leu Ala Leu Ile Lys Trp
1 5 10 15

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

Glu Tyr Ile Ala Glu Phe Glu Ser Asn Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 239
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  239

Met Gly Ser Trp Asp Gly Phe Lys His Arg Leu Ala Leu Ile Lys Trp
1               5                   10                  15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu
            20                  25                  30

Asn Trp Ile Ala Glu Phe Glu Gln Arg Leu Gln Tyr Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  240
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  240

Met Gly Ser Trp Asn Gly Phe Lys His Arg Leu Ala Ile Ile Lys Trp
1               5                   10                  15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
            20                  25                  30

Ser Tyr Ile Ala Glu Phe Glu Ser Gly Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 241
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 241

Met Gly Ser Trp Asn Ser Phe Lys His Arg Leu Ala Leu Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Trp Tyr Ile Ala Ser Phe Glu Ser Glu Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 242
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 242

Met Gly Ser Trp Ser Asp Phe Lys Tyr Arg Leu Ala Val Ile Lys Phe
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu

180
20 25 30

Ser Phe Ile Ala His Phe Glu Asp Asp Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 243
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 243

Met Gly Ser Trp Ser Gly Phe Lys Tyr Arg Leu Ala Val Ile Lys Phe
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Leu Phe Ile Ala Lys Phe Glu Ile Asp Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 244
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  244

Met Gly Ser Trp Tyr Gly Phe Lys Tyr Arg Leu Ala Val Ile Lys Trp
1               5                   10                  15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
            20                  25                  30

Lys Tyr Ile Ala His Phe Glu His Asp Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  245
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  245

Met Gly Ser Trp Tyr Gly Phe Lys Tyr Arg Leu Ala Val Ile Lys Trp
1               5                   10                  15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
            20                  25                  30

Lys Tyr Ile Ala Gln Phe Glu His Asp Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 246
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 246

Met Gly Ser Trp Tyr Gly Phe Lys Tyr Arg Leu Ala Leu Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Thr Tyr Ile Ala Asp Phe Glu Asp Leu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 247
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 247

Met Gly Ser Trp Ser Thr Phe Lys Tyr His Leu Ala Val Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu

20 25 30

Asp Tyr Ile Ala Gln Phe Glu Thr Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 248
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 248

Met Gly Ser Trp His Glu Phe Lys Tyr Arg Leu Ala Leu Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

His His Ile Ala Gln Phe Glu Trp Asp Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 249
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  249

Met Gly Ser Trp Asn Met Phe Lys Tyr Arg Leu Ala His Ile Lys Trp
1               5                   10                  15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
            20                  25                  30

Ala Tyr Ile Ala Asp Phe Glu Val Asp Leu Gln Lys Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  250
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  250

Met Gly Ser Trp His Gly Phe Lys Tyr Arg Leu Ala Ile Ile Lys Trp
1               5                   10                  15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
            20                  25                  30

Glu Trp Ile Ala Ser Phe Glu Arg Asp Leu Gln Ile Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 251
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 251

Met Gly Ser Trp His Gly Phe Lys Tyr Arg Leu Ala Val Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Gly Trp Ile Ala Gln Phe Glu Ile Thr Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 252
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 252

Met Gly Ser Trp Gln Gly Phe Lys Tyr Arg Leu Ala Val Ile Lys Trp
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu

20 25 30

Asn Trp Ile Ala Glu Phe Glu Thr Lys Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 253
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 253

Met Gly Ser Trp Ser Gly Phe Lys Tyr Arg Leu Ala Val Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Glu Trp Ile Ala Glu Phe Glu Thr Glu Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 254
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  254

Met Gly Ser Trp Gly Tyr Phe Lys Tyr Arg Leu Ala Met Ile Lys Trp
1               5                   10                  15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
            20                  25                  30

Ser Trp Ile Ala Glu Phe Glu Gly Ser Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  255
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  255

Met Gly Ser Trp His Ala Phe Lys Tyr Lys Leu Ala Met Ile Lys Trp
1               5                   10                  15

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

Glu Trp Ile Ala Glu Phe Glu Ala Leu Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 256
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 256

Met Gly Ser Trp Gln His Phe Lys Tyr Arg Leu Ala Ile Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Ser Phe Ile Ala Lys Phe Glu His Asp Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 257
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 257

Met Gly Ser Trp Asn Asp Phe Lys Tyr Arg Leu Ala Ile Ile Lys Tyr
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu

20 25 30

Ser Tyr Ile Ala Ser Phe Glu His Asp Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 258
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 258

Met Gly Ser Trp Gly Ala Phe Lys Tyr Arg Leu Ala Ile Ile Lys Phe
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Arg Phe Glu
20 25 30

Glu Phe Ile Ala Asn Phe Glu His Asp Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 259
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 259

Met Gly Ser Trp Tyr Asn Phe Lys Tyr Arg Leu Ala Ile Ile Lys Phe
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Ile Trp Ile Ala Glu Phe Glu His Asp Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 260
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 260

Met Gly Ser Trp Glu Gln Phe Lys Tyr Arg Leu Ala Ile Ile Lys Tyr
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Ser Trp Ile Ala Asn Phe Glu Ser Asp Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 261
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 261

Met Gly Ser Trp Gln Gln Phe Lys Tyr Arg Leu Ala Ile Ile Lys Tyr
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu
20 25 30

Thr Tyr Ile Ala Lys Phe Glu Glu Val Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 262
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 262

Met Gly Ser Trp Ala Gly Phe Lys Tyr Arg Leu Ala Val Ile Lys Tyr
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu

20 25 30

Gln Trp Ile Ala His Phe Glu Gly Met Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 263
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 263

Met Gly Ser Trp Thr Ala Phe Lys Tyr Arg Leu Ala Ile Ile Lys Phe
1 5 10 15

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

Ser Tyr Ile Ala His Phe Glu Asp Met Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 264
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 264

Met Gly Ser Trp Ala His Phe Lys Tyr Arg Leu Ala Ile Ile Lys Phe
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu
20 25 30

Glu Tyr Ile Ala Glu Phe Glu Ser Thr Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 265
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 265

Met Gly Ser Trp Ala Asn Phe Lys Tyr Arg Leu Ala Leu Ile Lys Trp
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Ile Trp Ile Ala Asp Phe Glu Glu Ser Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 266
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 266

Met Gly Ser Trp Ala Thr Phe Lys Tyr Arg Leu Ala Leu Ile Lys Trp
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Glu Tyr Ile Ala Gly Phe Glu Glu Gly Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 267
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 267

Met Gly Ser Trp Thr His Phe Lys Tyr Arg Leu Ala Leu Ile Lys Trp
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu

20 25 30

Val His Ile Ala Asp Phe Glu Ala Gln Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 268
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 268

Met Gly Ser Trp Asn Thr Phe Lys Tyr His Leu Ala Val Ile Lys Phe
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Gln Trp Ile Ala Glu Phe Glu Val Thr Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 269
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  269

Met Gly Ser Trp Thr Gln Phe Lys Tyr His Leu Ala Val Ile Lys Trp
1               5                   10                  15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu
            20                  25                  30

Gln Trp Ile Ala Glu Phe Glu Lys Thr Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  270
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  270

Met Gly Ser Trp Asn Gln Phe Lys Tyr Arg Leu Ala Val Ile Lys Phe
1               5                   10                  15

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

Thr Trp Ile Ala Ala Phe Glu Glu Gln Leu Gln Phe Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 271
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 271

Met Gly Ser Trp Asn Glu Phe Lys Tyr His Leu Ala Val Ile Lys Phe
1 5 10 15

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

Thr Trp Ile Ala Glu Phe Glu Tyr Glu Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 272
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 272

Met Gly Ser Trp Val Gln Phe Lys Tyr His Leu Ala Val Ile Lys Phe
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu

20 25 30

Thr Trp Ile Ala Glu Phe Glu Val Ala Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 273
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 273

Met Gly Ser Trp Val Asp Phe Lys Tyr His Leu Ala Val Ile Lys Phe
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu
20 25 30

Thr Trp Ile Ala Asn Phe Glu Gln Glu Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 274
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 274

Met Gly Ser Trp Val Asp Phe Lys Tyr His Leu Ala Val Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Asn Trp Ile Ala His Phe Glu Ser Ile Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 275
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 275

Met Gly Ser Trp Val Glu Phe Lys Tyr His Leu Ala Val Ile Lys Phe
1 5 10 15

Thr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Glu Glu Ile Ala Arg Phe Glu Met Ile Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 276
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 276

Met Gly Ser Trp Ser His Phe Lys Tyr His Leu Ala Leu Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Lys Phe Glu
20 25 30

Phe Trp Ile Ala Glu Phe Glu His Asn Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 277
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 277

Met Gly Ser Trp Tyr His Phe Lys Tyr His Leu Ala Leu Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu

20 25 30

His Trp Ile Ala Glu Phe Glu Trp Thr Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 278
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 278

Met Gly Ser Trp Gln Gly Phe Lys Tyr His Leu Ala Leu Ile Lys Phe
1 5 10 15

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

His Trp Leu Ala Glu Phe Glu His Asp Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 279
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 279

Met Gly Ser Trp Leu Ser Phe Lys His His Leu Ala Leu Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Ala Trp Ile Ala Leu Phe Glu His Gln Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 280
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 280

Met Gly Ser Trp Ser Glu Phe Lys Tyr Lys Leu Ala Leu Ile Lys Trp
1 5 10 15

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

Gly Trp Ile Ala Asn Phe Glu Thr Thr Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 281
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 281

Met Gly Ser Trp Ile Glu Phe Lys Tyr Lys Leu Ala Ile Ile Lys Phe
1 5 10 15

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

His Trp Ile Ala Asp Phe Glu Phe Val Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 282
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 282

Met Gly Ser Trp Gln Asn Phe Lys Tyr His Leu Ala Met Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu

20 25 30

Glu Phe Ile Ala Gln Phe Glu Ile Asn Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 283
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 283

Met Gly Ser Trp Tyr Asn Phe Lys Tyr His Leu Ala Ile Ile Lys Trp
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

His Tyr Ile Ala Asp Phe Glu Arg Asn Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 284
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 284

Met Gly Ser Trp Tyr Gln Phe Lys Tyr His Leu Ala Ile Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu
20 25 30

Asn Tyr Ile Ala Thr Phe Glu Gln Glu Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 285
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 285

Met Gly Ser Trp Ser His Phe Lys Tyr His Leu Ala Ile Ile Lys Phe
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu
20 25 30

Ile Trp Ile Ala Lys Phe Glu Asp Glu Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 286
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 286

Met Gly Ser Trp Val Gly Phe Lys Ala His Leu Ala Ile Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu
20 25 30

Ile Phe Ile Ala Asp Phe Glu Ala Leu Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 287
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 287

Met Gly Ser Trp Val Asn Phe Lys Tyr Lys Leu Ala Ile Ile Lys Tyr
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu

20 25 30

Asp Trp Ile Ala Glu Phe Glu Arg Thr Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 288
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 288

Met Gly Ser Trp Ser Asn Phe Lys Tyr Arg Leu Ala Val Ile Lys Tyr
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Trp Ile Ala Asp Phe Glu Leu His Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 289
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 289

Met Gly Ser Trp Thr Asn Phe Lys Tyr Lys Leu Ala Val Ile Lys Phe
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Trp Ile Ala Gly Phe Glu Ile Asp Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 290
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 290

Met Gly Ser Trp Thr Gly Phe Lys Tyr Arg Leu Ala Ile Ile Lys Phe
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Gln Trp Ile Ala Asp Phe Glu Asn Glu Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 291
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 291

Met Gly Ser Trp His Asn Phe Lys Tyr Arg Leu Ala Ile Ile Lys Phe
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asn Trp Ile Ala Asp Phe Glu Asp Ser Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 292
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 292

Met Gly Ser Trp Phe Ala Phe Lys His Arg Leu Ala Val Ile Lys Tyr
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu

210
20 25 30

His Trp Ile Ala Gln Phe Glu His Asp Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 293
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 293

Met Gly Ser Trp Tyr Glu Phe Lys His Arg Leu Ala Val Ile Lys Tyr
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asn Trp Ile Ala Gln Phe Glu His Glu Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 294
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 294

Met Gly Ser Trp Tyr Lys Phe Lys His Lys Leu Ala Val Ile Lys Tyr
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Glu Trp Ile Ala Glu Phe Glu Val Thr Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 295
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 295

Met Gly Ser Trp Phe Tyr Phe Lys Gln Lys Leu Ala Phe Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu
20 25 30

Ile Tyr Ile Ala Glu Phe Glu Val Met Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 296
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 296

Met Gly Ser Trp Phe Ser Phe Lys His His Leu Ala Val Ile Lys Trp
1 5 10 15

Asn Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Glu Gln Ile Ala Glu Phe Glu Ser Val Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 297
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 297

Met Gly Ser Trp Gly Asn Phe Lys Tyr Arg Leu Ala Ile Ile Lys Phe
1 5 10 15

His Leu Glu Ala Leu Gly Ser Ser Glu Ala Glu Leu Ala Thr Phe Glu

20 25 30

Ala Trp Ile Ala Asn Phe Glu Ser Met Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 298
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 298

Met Gly Ser Trp Ser Tyr Phe Lys Tyr Gly Leu Ala Ile Ile Lys Ile
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Arg Trp Ile Ala Ala Phe Glu His Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 299
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 299

Met Gly Ser Trp Ser Tyr Phe Lys Phe Gly Leu Ala His Ile Lys Leu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Gln Trp Ile Ala Ser Phe Glu Glu Gln Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 300
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 300

Met Gly Ser Trp Ser Tyr Phe Lys Trp Gly Leu Ala His Ile Lys Leu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Phe Trp Ile Ala Glu Phe Glu Gly Leu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 301
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 301

Met Gly Ser Trp Ile Tyr Phe Lys Tyr Gly Leu Ala His Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Gln Trp Ile Ala Glu Phe Glu Lys Met Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 302
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 302

Met Gly Ser Trp Gly Tyr Phe Lys Tyr Gly Leu Ala Thr Ile Lys His
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu

20 25 30

Leu Trp Ile Ala Lys Phe Glu Glu Gln Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 303
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 303

Met Gly Ser Trp Glu Tyr Phe Lys Tyr Gly Leu Ala Thr Ile Lys Met
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

His Trp Ile Ala His Phe Glu His Gln Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 304
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 304

Met Gly Ser Trp Ser Tyr Phe Lys Tyr Gly Leu Ala Thr Ile Lys Glu
1 5 10 15

Lys Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Thr Trp Ile Ala Met Phe Glu Lys Gln Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 305
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 305

Met Gly Ser Trp His Tyr Phe Lys Asn Gly Leu Ala Ile Ile Lys Glu
1 5 10 15

Lys Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Ile Trp Ile Ala Met Phe Glu Met Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 306
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 306

Met Gly Ser Trp Gln Tyr Phe Lys Tyr Gly Leu Ala Ile Ile Lys Ile
1 5 10 15

Lys Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Ala Trp Ile Ala Thr Phe Glu Lys Gln Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 307
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 307

Met Gly Ser Trp Val Tyr Phe Lys His Gly Leu Ala Val Ile Lys Met
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu

20 25 30

Thr Trp Ile Ala Gln Phe Glu Met Thr Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 308
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 308

Met Gly Ser Trp Val Tyr Phe Lys Tyr Gly Leu Ala Val Ile Lys Glu
1 5 10 15

Lys Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Thr Trp Ile Ala Glu Phe Glu Phe Gly Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 309
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  309

Met Gly Ser Trp Tyr Tyr Phe Lys Tyr Gly Leu Ala Val Ile Lys Gly
1               5                   10                  15

Lys Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
            20                  25                  30

Thr Trp Ile Ala Lys Phe Glu Asn His Leu Gln Ser Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  310
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  310

Met Gly Ser Trp Thr Tyr Phe Lys Tyr Gly Leu Ala Leu Ile Lys Tyr
1               5                   10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
            20                  25                  30

Glu Trp Ile Ala Gln Phe Glu Val Ser Leu Gln His Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 311
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 311

Met Gly Ser Trp Asp Tyr Phe Lys Tyr Gly Leu Ala Leu Ile Lys Ile
1 5 10 15

Lys Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Val Trp Ile Ala Gln Phe Glu Met Ala Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 312
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 312

Met Gly Ser Trp Thr Tyr Phe Lys Phe Gly Leu Ala His Ile Lys Asp
1 5 10 15

Ser Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu

20 25 30

Gln Trp Ile Ala Met Phe Glu Gln Asp Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 313
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 313

Met Gly Ser Trp Gly Tyr Phe Lys His Gly Leu Ala His Ile Lys Ser
1 5 10 15

Ser Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Val Trp Ile Ala Ala Phe Glu Asn Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 314
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 314

Met Gly Ser Trp Gly Tyr Phe Lys Thr Gly Leu Ala Ile Ile Lys Ala
1 5 10 15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Leu Trp Ile Ala Gln Phe Glu Glu Thr Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 315
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 315

Met Gly Ser Trp Ala Tyr Phe Lys Tyr Gly Leu Ala Val Ile Lys Leu
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Arg Tyr Ile Ala Glu Phe Glu Tyr Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 316
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 316

Met Gly Ser Trp Leu Asp Phe Lys Glu Gly Leu Ala Asp Ile Lys Arg
1 5 10 15

Ser Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Gly Val Ile Ala Leu Phe Glu Trp Lys Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 317
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 317

Met Gly Ser Trp Glu Val Phe Lys His Glu Leu Ala Val Ile Lys Asp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu

225
20 25 30

Trp Gly Ile Ala Trp Phe Glu Gly Phe Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 318
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 318

Met Gly Ser Trp Ile Val Phe Lys Gln Ser Leu Ala Trp Ile Lys Glu
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Phe Tyr Ile Ala Asn Phe Glu His Thr Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 319
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 319

Met Gly Ser Trp Ile Tyr Phe Lys Asp Ser Leu Ala Tyr Ile Lys Lys
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Tyr Tyr Ile Ala Asn Phe Glu His Glu Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 320
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 320

Met Gly Ser Trp Asp His Phe Lys Tyr Asn Leu Ala Trp Ile Lys Lys
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Trp Tyr Ile Ala Asn Phe Glu Lys Arg Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 321
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 321

Met Gly Ser Trp Phe Thr Phe Lys Gln Asn Leu Ala Trp Ile Lys Leu
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Arg Phe Glu
20 25 30

Tyr Tyr Ile Ala Asp Phe Glu Asn Lys Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 322
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 322

Met Gly Ser Trp Arg Glu Phe Lys Tyr Gly Leu Ala His Ile Lys Arg
1 5 10 15

Val Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu

20 25 30

Tyr Tyr Ile Ala Lys Phe Glu Gln Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 323
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 323

Met Gly Ser Trp Ile Gln Phe Lys Tyr Gly Leu Ala His Ile Lys Arg
1 5 10 15

Thr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Trp Tyr Ile Ala Asp Phe Glu Gln Gln Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 324
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 324

Met Gly Ser Trp Val Glu Phe Lys His Asn Leu Ala Trp Ile Lys Val
1 5 10 15

Thr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Tyr Tyr Ile Ala Gln Phe Glu Glu Gln Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 325
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 325

Met Gly Ser Trp Ile Ser Phe Lys Asp Asn Leu Ala Met Ile Lys Glu
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Trp Tyr Ile Ala Thr Phe Glu Val Glu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 326
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 326

Met Gly Ser Trp His Ile Phe Lys Asp Asn Leu Ala Thr Ile Lys Ala
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Trp Tyr Ile Ala Lys Phe Glu Glu Glu Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 327
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 327

Met Gly Ser Trp Thr Ser Phe Lys His Gly Leu Ala Gly Ile Lys Arg
1 5 10 15

Val Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu

20 25 30

Trp Tyr Ile Ala Gln Phe Glu Arg His Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 328
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 328

Met Gly Ser Trp Gln Ser Phe Lys His Ala Leu Ala Asp Ile Lys Ile
1 5 10 15

Asn Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Tyr Ala Ile Ala Val Phe Glu Tyr Arg Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 329
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 329

Met Gly Ser Trp His Thr Phe Lys Glu Ala Leu Ala Gln Ile Lys Gly
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Tyr Ala Ile Ala Val Phe Glu Tyr Arg Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 330
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 330

Met Gly Ser Trp Thr Asp Phe Lys Thr Ser Leu Ala Asp Ile Lys Ala
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Lys Phe Glu
20 25 30

Tyr Tyr Ile Ala Ile Phe Glu Tyr Arg Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 331
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 331

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

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Arg Phe Glu
20 25 30

Tyr Val Ile Ala Val Phe Glu Phe Arg Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 332
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 332

Met Gly Ser Trp His Thr Phe Lys Asp Gly Leu Ala Glu Ile Lys Ser
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu

20 25 30

Tyr Val Ile Ala Ile Phe Glu Tyr Arg Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 333
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 333

Met Gly Ser Trp Gln Phe Phe Lys Glu His Leu Ala Ser Ile Lys Phe
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Ala Ile Ala Asp Phe Glu Tyr His Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 334
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 334

Met Gly Ser Trp Thr Tyr Phe Lys Glu His Leu Ala Ser Ile Lys Phe
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Ala Ile Ala Glu Phe Glu Lys Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 335
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 335

Met Gly Ser Trp Ile Ile Phe Lys Gly Tyr Leu Ala His Ile Lys His
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Phe Tyr Ile Ala Ile Phe Glu Met Glu Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 336
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 336

Met Gly Ser Trp Tyr Leu Phe Gln Ser His Leu Ala His Ile Lys His
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Phe Thr Ile Ala Gly Phe Glu Gln Glu Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 337
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 337

Met Gly Ser Trp Tyr Ser Phe Lys Trp Thr Leu Ala Arg Ile Lys Leu
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu

20 25 30

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

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 338
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 338

Met Gly Ser Trp Thr Thr Leu Lys Trp Arg Leu Ala His Ile Lys Gln
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
20 25 30

Tyr Asp Ile Ala His Phe Glu Glu Leu Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 339
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 339

Met Gly Ser Trp Tyr Gly Phe Lys Trp Tyr Leu Ala Thr Ile Lys Lys
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
20 25 30

Thr Glu Ile Ala Thr Phe Glu Leu Trp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 340
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 340

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

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Tyr Glu Ala Cys Leu Asp Pro
50 55 60

Trp Ser Ser Ala Ala Tyr Arg His Asn
65 70

<210> 341
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 341

Met Gly Ser Trp Ile Glu Phe His Glu Arg Leu Trp Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu Met Ala Ala Ser Ile Arg
50 55 60

His Gly Leu Gln Ala Tyr Arg His Asn
65 70

<210> 342
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 342

Met Gly Ser Trp Phe Glu Phe Tyr Glu Arg Leu Trp Ala Ile Asp Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

240
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Glu Ala Ala Ser Ile Arg
50 55 60

Ser Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 343
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 343

Met Gly Ser Trp Phe Glu Phe Trp Asp Arg Leu Glu Ala Ile Asp Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Tyr Asn Ala Ala Glu Ile Arg
50 55 60

Lys Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 344
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 344

Met Gly Ser Trp His Glu Phe Trp Ser Arg Leu Asp Ala Ile Asp Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Gly Ala Ala Ala Asp Ile Arg
50 55 60

Ala Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 345
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 345

Met Gly Ser Trp Tyr Glu Phe Trp Ile Arg Leu Glu Ala Ile Asp Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Asp Ile Leu Arg Asp Phe Ala Ala Asp Ile Arg
50 55 60

Thr Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 346
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 346

Met Gly Ser Trp His Glu Phe Trp Asp Arg Leu Glu Ala Ile Asp Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu Glu Ala Ala Tyr Ile Arg
50 55 60

Glu Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 347
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 347

Met Gly Ser Trp Glu Glu Phe Trp Asp Arg Leu Phe Ala Ile Asp Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Asn Glu Ala Ala Glu Ile Arg
50 55 60

Met Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 348
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 348

Met Gly Ser Trp Trp Glu Phe Asp Asp Arg Leu Phe Ala Ile Asp Thr
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu Trp Ala Ala Thr Ile Arg
50 55 60

Met Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 349
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 349

Met Gly Ser Trp Thr Glu Phe His Asp Arg Leu Glu Ala Ile Asp Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu Glu Ala Ala Gln Ile Arg
50 55 60

Trp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 350
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 350

Met Gly Ser Trp Ala Glu Phe Glu Asp Arg Leu Trp Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu Glu Ala Ala Ala Ile Arg
50 55 60

Phe Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 351
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 351

Met Gly Ser Trp Val Glu Phe Trp Phe Arg Leu Glu Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Glu Ala Ala Ala Ile Arg
50 55 60

Glu Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 352
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 352

Met Gly Ser Trp Val Glu Phe Trp Gln Arg Leu Glu Ala Ile Glu Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu Glu Ala Ala Glu Ile Arg
50 55 60

Trp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 353
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 353

Met Gly Ser Trp Ser Glu Phe Trp Gln Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Asn Ala Ala Met Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 354
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 354

Met Gly Ser Trp Ser Glu Phe Ile Thr Arg Leu Glu Ala Ile Asp Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Glu Glu Ala Ala Glu Ile Arg
50 55 60

Gln His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 355
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 355

Met Gly Ser Trp Tyr Glu Phe Glu Thr Arg Leu Glu Ala Ile Tyr Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Val Glu Ala Ala Glu Ile Arg
50 55 60

Glu Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 356
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 356

Met Gly Ser Trp Thr Glu Phe Tyr Tyr Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Val Glu Ala Ala Asn Ile Arg
50 55 60

Asp Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 357
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 357

Met Gly Ser Trp Tyr Glu Phe Val Ile Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Trp Tyr Ala Ala Asp Ile Arg
50 55 60

His Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 358
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 358

Met Gly Ser Trp Thr Glu Phe Ser Ile Arg Leu Glu Ala Ile Tyr Asp
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Thr Tyr Ala Ala Asn Ile Arg
50 55 60

His Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 359
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 359

Met Gly Ser Trp Thr Glu Phe Ser Ile Arg Leu Glu Ala Ile Tyr Asp
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Thr Tyr Ala Ala Phe Ile Arg
50 55 60

His Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 360
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 360

Met Gly Ser Trp Thr Glu Phe Val Trp Arg Leu Glu Ala Ile Trp Asp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Glu Asp Ala Ala Val Ile Arg
50 55 60

His Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 361
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 361

Met Gly Ser Trp Val Glu Phe His Glu Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu Asp Ala Ala Phe Ile Arg
50 55 60

Gln Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 362
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 362

Met Gly Ser Trp Val Glu Phe His Asp Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Asp Ala Ala Tyr Ile Arg
50 55 60

Ser Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 363
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 363

Met Gly Ser Trp Ile Glu Phe Tyr Asp Arg Leu Glu Ala Ile Tyr Asp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Asp Ala Ala Phe Ile Arg
50 55 60

Ser Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 364
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 364

Met Gly Ser Trp Val Glu Phe Asp Gln Arg Leu Glu Ala Ile Tyr Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Asp Ala Ala Gln Ile Arg
50 55 60

Lys Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 365
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 365

Met Gly Ser Trp Val Glu Phe His Asp Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Glu Tyr Ala Ala Gly Ile Arg
50 55 60

Trp Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 366
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 366

Met Gly Ser Trp Glu Glu Phe Ala Gln Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Tyr Val Ala Ala Gln Ile Arg
50 55 60

Tyr His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 367
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 367

Met Gly Ser Trp Asp Glu Phe Ala Trp Arg Leu Asp Val Ile Phe Ala
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Lys Asn Ala Ala Gln Ile Arg
50 55 60

Asp Gly Leu Gln Ala Tyr Arg His Asn
65 70

<210> 368
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 368

Met Gly Ser Trp Asp Glu Phe Tyr Tyr Arg Leu Glu Ala Ile Glu Met
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg His Tyr Ala Ala Gln Ile Arg
50 55 60

His Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 369
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 369

Met Gly Ser Trp Glu Glu Phe Tyr Asp Arg Leu Glu Ala Ile Tyr Asn
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Glu Tyr Ala Ala Asp Ile Arg
50 55 60

Glu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 370
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 370

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 371
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 371

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Thr Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 372
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 372

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Thr
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 373
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 373

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 374
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 374

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Lys Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 375
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 375

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Lys Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 376
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 376

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Gly Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 377
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 377

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Thr Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 378
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 378

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Gly Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Ser Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 379
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 379

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Thr Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Ser Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 380
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 380

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Ser Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 381
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 381

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Ala Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 382
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 382

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 383
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 383

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Glu Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 384
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 384

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Ser Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Ser Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 385
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 385

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Ser Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 386
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 386

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Ser Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 387
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 387

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Gln Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Ser Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 388
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 388

Met Gly Ser Trp Asp Glu Phe Ser Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Ser Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 389
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 389

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 390
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 390

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Gln Leu Ala Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 391
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 391

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Gln Leu Ala Ala Leu Gly Gly Thr Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 392
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 392

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Gln Leu Ala Ala Leu Gly Gly Glu Glu Ala Glu Leu Ala Ala Phe Glu

270

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 393
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 393

Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Gln Leu Ala Ala Leu Gly Gly Thr Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Val Ile Arg
50 55 60

Glu Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 394
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 394

Met Gly Ser Trp Asp Glu Phe Glu Gln Arg Leu Ile Ala Ile Glu Glu
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Glu Ala Ala Val Ile Arg
50 55 60

Lys Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 395
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 395

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

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Gln Gly Ala Ala Val Ile Arg
50 55 60

Asp Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 396
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 396

Met Gly Ser Trp Val Glu Phe Asp Met Arg Leu Ser Ala Ile Trp Glu
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Asp Ala Ala Glu Ile Arg
50 55 60

Glu Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 397
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 397

Met Gly Ser Trp Val Glu Phe Asp Gln Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Asp Glu Ala Ala Glu Ile Arg
50 55 60

Glu His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 398
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 398

Met Gly Ser Trp His Glu Phe Asp Gln Arg Leu Trp Ala Ile Glu Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Leu Tyr Ala Ala Leu Ile Arg
50 55 60

His Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 399
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  399

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Asp Ala Ile Glu Gly
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Asp Leu Arg Trp Leu Ala Ala Glu Ile Arg
    50                  55                  60

Ala Asp Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  400
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  400

Met Gly Ser Trp Val Glu Phe Tyr Ser Arg Leu Asp Ala Ile Glu Asp
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg Ile Ala Ala Ala Ser Ile Arg
    50                  55                  60

Glu Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 401
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 401

Met Gly Ser Trp Tyr Glu Phe Tyr Glu Arg Leu Asp Ala Ile Glu Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Asp Trp Ala Ala Trp Ile Arg
50 55 60

Glu Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 402
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 402

Met Gly Ser Trp Phe Glu Phe Asp Asp Arg Leu Trp Ala Ile Glu Asn
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Asp Asn Ala Ala Trp Ile Arg
50 55 60

Glu Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 403
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 403

Met Gly Ser Trp Tyr Glu Phe Trp Asp Arg Leu Asp Ala Leu Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Asp Ser Ala Ala Phe Ile Arg
50 55 60

Glu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 404
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  404

Met Gly Ser Trp Met Glu Phe Val Asp Arg Leu Asp Ala Ile Glu Ser
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg Ile Glu Ala Ala Phe Ile Arg
    50                  55                  60

Glu Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  405
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  405

Met Gly Ser Trp Asp Glu Phe Val Asp Arg Leu Trp Ala Ile Glu Glu
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Glu Leu Arg Ile Gln Ala Ala Ile Ile Arg
    50                  55                  60

Glu Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 406
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 406

Met Gly Ser Trp Phe Glu Phe Asn Tyr Arg Leu Gly Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Gln Ile Ala Ala Glu Ile Arg
50 55 60

Glu Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 407
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 407

Met Gly Ser Trp Glu Glu Phe Phe Thr Arg Leu Asp Ala Ile Asn Glu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Tyr Glu Ala Ala Glu Ile Arg
50 55 60

His Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 408
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 408

Met Gly Ser Trp Tyr Glu Phe Ser Asn Arg Leu Asp Ala Ile Gly Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg His Gln Ala Ala Glu Ile Arg
50 55 60

Trp Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 409
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  409

Met Gly Ser Trp Tyr Glu Phe Trp Gly Arg Leu Asp Ala Ile Glu Glu
1               5                  10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Arg
        35                  40                  45

Gly Asn Pro Glu Val Glu Met Leu Arg Glu Asp Ala Ala Glu Ile Arg
    50                  55                  60

Gly Gln Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  410
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  410

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Trp Ala Ile Asp Tyr
1               5                  10                  15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Asp Glu Ala Ala Trp Ile Arg
    50                  55                  60

Glu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 411
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 411

Met Gly Ser Trp Val Glu Phe Val Asp Arg Leu Trp Ala Ile Asp Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Thr Trp Ala Ala Trp Ile Arg
50 55 60

Glu Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 412
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 412

Met Gly Ser Trp Phe Glu Phe Trp Asp Arg Leu Glu Ala Ile Trp Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Arg Glu Ala Ala Ile Ile Arg
50 55 60

Glu Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 413
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 413

Met Gly Ser Trp Phe Glu Phe Glu Asp Arg Leu Glu Ala Ile Tyr Gln
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Asp Glu Ala Ala Trp Ile Arg
50 55 60

Ser Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 414
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 414

Met Gly Ser Trp Phe Glu Phe His Asp Arg Leu Trp Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Glu Glu Ala Ala Asp Ile Arg
50 55 60

Leu Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 415
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 415

Met Gly Ser Trp Tyr Glu Phe Glu Asp Arg Leu Trp Ala Ile Asp Asn
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Val His Ala Ala Asp Ile Arg
50 55 60

Asp Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 416
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 416

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

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Asp His Ala Ala Met Ile Arg
50 55 60

Trp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 417
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 417

Met Gly Ser Trp Asp Glu Phe Glu Glu Arg Leu Phe Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Tyr Leu Ala Ala Asp Ile Arg
50 55 60

Glu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 418
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 418

Met Gly Ser Trp Glu Glu Phe Trp Glu Arg Leu Asp Ala Ile Asp Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Asn Asp Ala Ala Asp Ile Arg
50 55 60

Glu Pro Leu Gln Ala Tyr Arg His Asn
65 70

<210> 419
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 419

Met Gly Ser Trp Met Glu Phe Trp Glu Arg Leu Glu Ala Ile Asp Met
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Asp Asp Ala Ala Val Ile Arg
50 55 60

Asp Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 420
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 420

Met Gly Ser Trp Leu Glu Phe Met Trp Arg Leu Asp Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Glu Met Ala Ala Ala Ile Arg
50 55 60

Asp Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 421
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 421

Met Gly Ser Trp Thr Glu Phe Tyr Asn Arg Leu Asp Ala Ile Asp Gln
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Glu Tyr Ala Ala Asp Ile Arg
50 55 60

Thr Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 422
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 422

Met Gly Ser Trp Trp Glu Phe Ile Trp Arg Leu Glu Ala Ile Glu Gln
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Ser Arg Ala Ala Asp Ile Arg
50 55 60

Thr Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 423
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 423

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Trp Ala Ile Glu Glu
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Tyr Tyr Ala Ala Glu Ile Arg
50 55 60

Glu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 424
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 424

Met Gly Ser Trp Ser Glu Phe Glu Asp Arg Leu Trp Ala Ile Asp Gln
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Ala Tyr Ala Ala Asp Ile Arg
50 55 60

Trp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 425
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 425

Met Gly Ser Trp Thr Glu Phe Trp Glu Arg Leu Asn Ala Ile Asp Glu
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Leu Tyr Ala Ala Glu Ile Arg
50 55 60

Ser Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 426
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 426

Met Gly Ser Trp Trp Glu Phe Glu Glu Arg Leu Trp Ala Ile Asp Tyr
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Ser Trp Ala Ala Glu Ile Arg
50 55 60

Ala Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 427
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 427

Met Gly Ser Trp Trp Glu Phe Glu Asn Arg Leu Trp Ala Ile Glu Glu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Asn Tyr Ala Ala Glu Ile Arg
50 55 60

Trp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 428
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 428

Met Gly Ser Trp Val Glu Phe Glu Glu Arg Leu Trp Ala Ile Asp Glu
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Asp Trp Ala Ala Asp Ile Arg
50 55 60

Trp Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 429
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 429

Met Gly Ser Trp Val Glu Phe Glu Glu Arg Leu Glu Ala Ile Glu Glu
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Asp Asp Ala Ala Asn Ile Arg
50 55 60

His Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 430
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 430

Met Gly Ser Trp Met Glu Phe Glu Glu Arg Leu Trp Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Ser Glu Ala Ala Trp Ile Arg
50 55 60

Met Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 431
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 431

Met Gly Ser Trp Ser Glu Phe Glu His Arg Leu Glu Ala Ile Glu Ser
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Ser Glu Ala Ala Trp Ile Arg
50 55 60

Glu Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 432
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 432

Met Gly Ser Trp Phe Glu Phe Trp Glu Arg Leu Asp Ala Ile Glu Trp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Ser Thr Ala Ala Asp Ile Arg
50 55 60

Arg Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 433
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 433

Met Gly Ser Trp Phe Glu Phe Trp Gly Arg Leu Glu Ala Ile Glu Ser
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Glu His Ala Ala Trp Ile Arg
50 55 60

Ala Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 434
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 434

Met Gly Ser Trp Gln Glu Phe Thr Met Arg Leu Asp Ala Ile Tyr Asn
1 5 10 15

Arg Leu Glu Thr Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Ser Ala Ala Asn Ile Arg
50 55 60

Ser Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 435
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 435

Met Gly Ser Trp Ser Glu Phe Asn Met Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg His Ser Ala Ala Arg Ile Arg
50 55 60

Leu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 436
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 436

Met Gly Ser Trp Ser Glu Phe Asn Met Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg His Ser Ala Ala Leu Ile Arg
50 55 60

Leu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 437
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 437

Met Gly Ser Trp Ile Glu Phe Asn Met Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Lys Val Ala Ala Asn Ile Arg
50 55 60

Leu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 438
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 438

Met Gly Ser Trp Tyr Glu Phe His His Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Ser Ser Ala Ala Asn Ile Arg
50 55 60

Lys Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 439
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 439

Met Gly Ser Trp Tyr Glu Phe Ala Lys Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Ser Ser Ala Ala Asn Ile Arg
50 55 60

Glu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 440
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 440

Met Gly Ser Trp Thr Glu Phe Tyr Val Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Met Val Ala Ala Asn Ile Arg
50 55 60

Thr Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 441
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 441

Met Gly Ser Trp Val Glu Phe Tyr Thr Arg Leu Asp Ala Ile Tyr Gly
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Val Ala Ala Asn Ile Arg
50 55 60

Met Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 442
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 442

Met Gly Ser Trp Val Glu Phe His Met Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

300
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Thr Ala Ala Ala Asn Ile Arg
50 55 60

Val Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 443
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 443

Met Gly Ser Trp Tyr Glu Phe Ala Ile Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Val Trp Ala Ala Asn Ile Arg
50 55 60

Thr Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 444
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 444

Met Gly Ser Trp Asn Glu Phe Val Ile Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Met Ala Ala Ala Asn Ile Arg
50 55 60

Met Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 445
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 445

Met Gly Ser Trp Ser Glu Phe Tyr Val Arg Val Asp Ala Ile Tyr Ala
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Val Trp Ala Ala Asn Ile Arg
50 55 60

His Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 446
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 446

Met Gly Ser Trp Ser Glu Phe His Val Arg Leu Asp Ala Ile Tyr Ala
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Arg Leu Arg Glu Trp Ala Ala Asn Ile Arg
50 55 60

Arg Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 447
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 447

Met Gly Ser Trp Val Glu Phe His Leu Arg Leu Asp Ala Ile Tyr Gly
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Val Trp Ala Ala Asn Ile Arg
50 55 60

Asn Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 448
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 448

Met Gly Ser Trp Val Glu Phe Glu Met Arg Leu Asp Ala Ile Val Gly
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Arg Trp Ala Ala Asn Ile Arg
50 55 60

Ser Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 449
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  449

Met Gly Ser Trp Val Glu Phe Asn Ile Arg Leu Asp Ala Ile Tyr Glu
1               5                   10                  15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Lys Leu Arg His Trp Ala Ala Ser Ile Arg
    50                  55                  60

Arg Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  450
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  450

Met Gly Ser Trp His Glu Phe Gly Val Arg Leu Asp Ala Ile Tyr Asp
1               5                   10                  15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Phe Leu Arg Gln Ala Ala Ala Asn Ile Arg
    50                  55                  60

Ser Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 451
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 451

Met Gly Ser Trp Thr Glu Phe Asn Leu Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Ala Ser Ala Ala Ala Ile Arg
50 55 60

Val Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 452
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 452

Met Gly Ser Trp Thr Glu Phe Asn Leu Arg Leu Asp Ala Ile Tyr Gly
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Ala Ala Ala Ala Asn Ile Arg
50 55 60

Val Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 453
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 453

Met Gly Ser Trp Val Glu Phe Asn Trp Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Val Ser Ala Ala Lys Ile Arg
50 55 60

Gly Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 454
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  454

Met Gly Ser Trp Asn Glu Phe Ala Trp Arg Leu Asp Ala Ile Tyr Ser
1               5                   10                  15

Arg Leu Ala Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg Val Ala Ala Ala Asn Ile Arg
    50                  55                  60

Tyr Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  455
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  455

Met Gly Ser Trp Thr Glu Phe Ala Trp Arg Leu Asp Ala Ile Tyr Asp
1               5                   10                  15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg His Val Ala Ala Asn Ile Arg
    50                  55                  60

Arg Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 456
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 456

Met Gly Ser Trp Val Glu Phe Ser Ile Arg Leu Asp Ala Ile Tyr Thr
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Lys Gly Ala Ala Asn Ile Arg
50 55 60

Lys Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 457
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 457

Met Gly Ser Trp Val Glu Phe Tyr Ile Arg Leu Asp Ala Ile Tyr Val
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Ser Tyr Ala Ala Asn Ile Arg
50 55 60

Gln Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 458
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 458

Met Gly Ser Trp Tyr Glu Phe Ser Met Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Gln Leu Arg Gly Tyr Ala Ala Asn Ile Arg
50 55 60

Asn Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 459
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 459

Met Gly Ser Trp Val Glu Phe Ile Tyr Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Arg Tyr Ala Ala Asn Ile Arg
50 55 60

Asn Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 460
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 460

Met Gly Ser Trp Ile Glu Phe Glu Val Arg Leu Asp Ala Ile Tyr Asn
1 5 10 15

Arg Leu Ala Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Arg Leu Arg Arg Tyr Ala Ala Asn Ile Arg
50 55 60

His Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 461
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 461

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asp Ala Ile Tyr Met
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Arg Tyr Ala Ala Asn Ile Arg
50 55 60

Ala Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 462
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 462

Met Gly Ser Trp Phe Glu Phe Tyr Met Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Arg Leu Arg Thr Phe Ala Ala Asn Ile Arg
50 55 60

Lys Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 463
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 463

Met Gly Ser Trp Tyr Glu Phe Asp Tyr Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Ala Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Arg Leu Arg Lys Trp Ala Ala Asn Ile Arg
50 55 60

Glu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 464
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 464

Met Gly Ser Trp Ser Glu Phe Tyr Leu Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Lys Thr Ala Ala Asn Ile Arg
50 55 60

Glu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 465
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 465

Met Gly Ser Trp Phe Glu Phe Tyr Glu Arg Leu Asp Ala Ile Asn Trp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Gly Glu Ala Ala Ala Ile Arg
50 55 60

Glu Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 466
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 466

Met Gly Ser Trp Asn Glu Phe Glu Asp Arg Leu Asp Ala Ile Trp Trp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Val Glu Ala Ala Phe Ile Arg
50 55 60

Thr Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 467
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 467

Met Gly Ser Trp Phe Tyr Phe Lys Asp Asp Leu Ala Asp Ile Asn Tyr
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu

20 25 30

Asp Asp Ile Ala Gly Phe Glu Leu Thr Leu Leu Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 468
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 468

Met Gly Ser Trp His Phe Phe Lys Asp Asp Leu Ala Trp Ile Lys Asn
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Asp Asp Ile Ala Met Phe Glu Thr Met Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 469
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 469

Met Gly Ser Trp His Trp Phe Lys Thr Asp Leu Ala Asp Ile Lys Glu
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Asp Asp Ile Ala Glu Phe Glu Glu Phe Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 470
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 470

Met Gly Ser Trp Trp Leu Phe Lys Asp Asp Leu Ala Glu Ile Lys Tyr
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Asp Ile Ala Glu Phe Glu Arg Gly Leu Gln Ile Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 471
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 471

Met Gly Ser Trp Tyr Glu Phe Lys Asp Asp Leu Ala Glu Ile Lys Glu
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Leu Asp Ile Ala Asp Phe Glu Trp Leu Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 472
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 472

Met Gly Ser Trp Gln Trp Phe Lys Asp Asp Leu Ala Tyr Ile Lys Glu
1 5 10 15

Thr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu

20 25 30

Asp Met Ile Ala Asp Phe Glu Phe Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 473
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 473

Met Gly Ser Trp Ile Leu Phe Lys Asp Asp Leu Ala Trp Ile Lys Glu
1 5 10 15

Thr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Asn Ile Ala Asp Phe Glu Glu Gln Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 474
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 474

Met Gly Ser Trp Ile Val Phe Lys Asp Asp Leu Ala Asp Ile Lys Arg
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Asp Glu Ile Ala Asp Phe Glu Trp Gln Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 475
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 475

Met Gly Ser Trp Gly His Phe Lys Gln Asp Leu Ala Trp Ile Lys Asp
1 5 10 15

Thr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Asp Ile Ala Met Phe Glu Met Glu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 476
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 476

Met Gly Ser Trp Gly Tyr Phe Lys Asp Asp Leu Ala Trp Ile Lys Gly
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Trp Phe Ile Ala Val Phe Glu Glu Asp Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 477
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 477

Met Gly Ser Trp Tyr Trp Phe Lys Asp Asp Leu Ala Glu Ile Lys Gly
1 5 10 15

Leu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

20 25 30

Asp Glu Ile Ala Val Phe Glu Gln Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 478
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 478

Met Gly Ser Trp Met Phe Phe Lys Glu Asp Leu Ala Asp Ile Lys Trp
1 5 10 15

Ala Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Glu Glu Ile Ala Leu Phe Glu Gln His Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 479
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  479

Met Gly Ser Trp Thr Phe Phe Lys Glu Asp Leu Ala Gly Ile Lys Trp
1               5                   10                  15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Asp Glu Ile Ala Leu Phe Glu Glu Glu Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  480
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  480

Met Gly Ser Trp Val Phe Phe Lys Asp Asp Leu Ala Asp Ile Lys Asp
1               5                   10                  15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
            20                  25                  30

Ile Ala Ile Ala Leu Phe Glu Trp Glu Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 481
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 481

Met Gly Ser Trp Thr Phe Phe Lys Asn Asp Leu Ala Glu Ile Lys Asp
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Trp Asp Ile Ala Glu Phe Glu Tyr Ser Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 482
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 482

Met Gly Ser Trp Thr Tyr Phe Lys Asp Asp Leu Ala Asp Ile Lys Gln
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu

20 25 30

Ile Glu Ile Ala Glu Phe Glu Glu Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 483
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 483

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

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Glu Glu Ile Ala Glu Phe Glu Glu Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 484
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 484

Met Gly Ser Trp Tyr Trp Phe Lys Gln Asp Leu Ala His Ile Lys Ser
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Glu Asp Ile Ala Asp Phe Glu Ser Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 485
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 485

Met Gly Ser Trp Thr Phe Phe Lys Trp Asp Leu Ala Asp Ile Lys Ala
1 5 10 15

Asn Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Glu Asp Leu Ala Gly Phe Glu Ala Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 486
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 486

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

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Glu Asp Ile Ala Asp Phe Glu Glu Asp Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 487
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 487

Met Gly Ser Trp Glu Phe Phe Lys Tyr Glu Leu Ala Asp Ile Lys Asp
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

Glu Asp Ile Ala Thr Phe Glu Glu Trp Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 488
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 488

Met Gly Ser Trp Gln Thr Phe Lys Asp Glu Leu Ala His Ile Lys Trp
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Trp Asp Ile Ala Asn Phe Glu Glu Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 489
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  489

Met Gly Ser Trp Tyr Trp Phe Lys Glu Glu Leu Ala Phe Ile Lys Trp
1               5                   10                  15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
            20                  25                  30

Glu Asp Ile Ala Tyr Phe Glu Glu Met Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  490
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  490

Met Gly Ser Trp Asn Ser Phe Lys Asp Glu Leu Ala Glu Ile Lys Ala
1               5                   10                  15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
            20                  25                  30

Glu Asp Ile Ala Trp Phe Glu Glu His Leu Gln Gln Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 491
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 491

Met Gly Ser Trp Asp Leu Phe Lys Trp Glu Leu Ala Glu Ile Lys Leu
1 5 10 15

Gly Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Tyr Asp Ile Ala Trp Phe Glu Glu Asp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 492
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 492

Met Gly Ser Trp Ile Phe Phe Lys Gln Asp Leu Ala Glu Ile Lys Leu
1 5 10 15

Asn Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

330
20 25 30

Asp Asp Ile Ala Trp Phe Glu Ser His Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 493
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 493

Met Gly Ser Trp His Leu Phe Lys Trp Thr Leu Ala Glu Ile Lys Tyr
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Asp Ile Ala Thr Phe Glu Glu Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 494
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 494

Met Gly Ser Trp Val Thr Phe Lys Asp Glu Leu Ala Asp Ile Lys Asp
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Val Asp Ile Ala Glu Phe Glu Ala Glu Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 495
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 495

Met Gly Ser Trp Val Tyr Phe Lys Asp Glu Leu Ala Asp Ile Lys Asp
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Glu Asp Ile Ala Thr Phe Glu Tyr Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 496
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 496

Met Gly Ser Trp Glu Thr Phe Lys Tyr Glu Leu Ala Glu Ile Lys Asp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Asp Ile Ala Glu Phe Glu Phe Glu Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 497
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 497

Met Gly Ser Trp Asn Thr Phe Lys Tyr Glu Leu Ala Glu Ile Lys His
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu

20 25 30

Asp Asp Ile Ala Met Phe Glu Trp Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 498
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 498

Met Gly Ser Trp Tyr Val Phe Lys Asp Glu Leu Ala Glu Ile Lys Gln
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Asp Ile Ala Glu Phe Glu Thr Gln Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 499
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 499

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

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Asp Ile Ala Ala Phe Glu Asp Asp Leu Gln Phe Tyr Lys Gly Gln
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 500
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 500

Met Gly Ser Trp Glu Phe Phe Lys Glu Val Leu Ala Glu Ile Lys Tyr
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Thr Asp Ile Ala Gly Phe Glu Ile Asp Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 501
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 501

Met Gly Ser Trp Val Phe Phe Lys Glu Asp Leu Ala Thr Ile Lys Asn
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Met Met Ile Ala Asp Phe Glu Ala Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 502
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 502

Met Gly Ser Trp Glu Glu Phe Lys Glu Asp Leu Ala Glu Ile Lys Val
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

Met Gly Ile Ala Asp Phe Glu Asp Gly Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 503
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 503

Met Gly Ser Trp His Trp Phe Lys Glu Asp Leu Ala Asn Ile Lys Asp
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Asn Ile Ala Asp Phe Glu Gly Asp Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 504
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 504

Met Gly Ser Trp Phe Trp Phe Lys Glu Asp Leu Ala Phe Ile Lys Glu
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Gly Ile Ala Phe Phe Glu Trp Asp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 505
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 505

Met Gly Ser Trp Gln Trp Phe Lys Glu Asp Leu Ala Glu Ile Lys His
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Phe Ile Ala Gln Phe Glu Phe Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 506
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 506

Met Gly Ser Trp His Trp Phe Lys Glu Asp Leu Ala Ile Ile Lys Gln
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Gln Trp Ile Ala Glu Phe Glu Trp Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 507
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 507

Met Gly Ser Trp Asn Trp Phe Lys Glu Asp Leu Ala Ile Ile Lys Met
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

His Asn Ile Ala Gly Phe Glu Phe Glu Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 508
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 508

Met Gly Ser Trp Ser Trp Phe Lys Glu Asp Leu Ala Glu Ile Lys Met
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Trp Tyr Ile Ala Glu Phe Glu Phe Gln Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 509
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 509

Met Gly Ser Trp Ser Trp Phe Lys Gln Asp Leu Ala Asp Ile Lys Ile
1 5 10 15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Trp Asp Ile Ala Glu Phe Glu Phe Glu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 510
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 510

Met Gly Ser Trp Ser Trp Phe Lys Glu Asp Leu Ala Asp Ile Lys Phe
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Leu Asp Ile Ala Asp Phe Glu Gln Ala Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 511
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 511

Met Gly Ser Trp Ser Trp Phe Lys Glu Asp Leu Ala Ser Ile Lys Ala
1 5 10 15

Val Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Ser Asp Ile Ala Glu Phe Glu Gln Glu Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 512
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 512

Met Gly Ser Trp Trp Glu Phe Lys Glu Asp Leu Ala Glu Ile Lys Trp
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

His Asp Ile Ala Lys Phe Glu Phe Glu Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 513
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 513

Met Gly Ser Trp Glu Trp Phe Lys Ser Asp Leu Ala Ser Ile Lys Trp
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

His Asp Ile Ala Glu Phe Glu Glu Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 514
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 514

Met Gly Ser Trp Asn Glu Phe Lys Asp Asp Leu Ala Met Ile Lys Met
1 5 10 15

Thr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

His Asp Ile Ala Glu Phe Glu Asp Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 515
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 515

Met Gly Ser Trp Thr Phe Phe Lys Asp Asp Leu Ala Glu Ile Lys Trp
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Ser Asp Ile Ala Tyr Phe Glu Asp Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 516
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 516

Met Gly Ser Trp Ser Asp Phe Lys Asp Asp Leu Ala Glu Ile Lys Met
1 5 10 15

Ile Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Asn Asp Ile Ala Trp Phe Glu Asp Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 517
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 517

Met Gly Ser Trp Ser Met Phe Lys Asp Asp Leu Ala Glu Ile Lys Ala
1 5 10 15

Ser Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

345

20 25 30

Asp Asp Ile Ala Trp Phe Glu Asp Asp Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 518
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 518

Met Gly Ser Trp Gln Tyr Phe Lys Asp Asp Leu Ala Glu Ile Lys Met
1 5 10 15

Val Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Ala Asp Ile Ala Met Phe Glu Asp Asp Leu Gln Ile Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 519
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 519

Met Gly Ser Trp Ser Phe Phe Lys Asp Asp Leu Ala Glu Ile Lys Tyr
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Gln Thr Ile Ala Glu Phe Glu Tyr Asp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 520
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 520

Met Gly Ser Trp Met Glu Phe Lys Glu Glu Leu Ala Glu Ile Lys Tyr
1 5 10 15

Ile Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Gln Ser Ile Ala Asp Phe Glu Tyr Asp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 521
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 521

Met Gly Ser Trp Ala Trp Phe Lys Glu Asp Leu Ala Glu Ile Lys Val
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Val Ser Ile Ala Asp Phe Glu Tyr Glu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 522
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 522

Met Gly Ser Trp Tyr Glu Phe Lys Phe Asp Leu Ala Glu Ile Lys Glu
1 5 10 15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu

20 25 30

Asp Asp Ile Ala Phe Phe Glu Tyr Asp Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 523
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 523

Met Gly Ser Trp Tyr Asp Phe Lys Tyr Asp Leu Ala Glu Ile Lys Met
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Phe Asp Ile Ala Phe Phe Glu Glu Glu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 524
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 524

Met Gly Ser Trp Tyr Ile Phe Lys Glu Asp Leu Ala Glu Ile Lys Glu
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Glu Glu Ile Ala Leu Phe Glu Met Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 525
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 525

Met Gly Ser Trp Val Leu Phe Lys Glu Glu Leu Ala Tyr Ile Lys Phe
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
20 25 30

Asn Val Ile Ala Ile Phe Glu Ser Asn Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 526
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 526

Met Gly Ser Trp Gln Asp Phe Lys Glu Asp Leu Ala Trp Ile Lys Tyr
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Tyr Asp Ile Ala Ile Phe Glu Asn Asn Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 527
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 527

Met Gly Ser Trp Asp His Phe Lys Asn Asp Leu Ala Trp Ile Lys Lys
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

20 25 30

Ala Val Ile Ala Tyr Phe Glu Leu Tyr Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 528
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 528

Met Gly Ser Trp Tyr Asp Phe Lys Glu Asp Leu Ala Asp Ile Lys Trp
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Asn Val Ile Ala Tyr Phe Glu Asn Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 529
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 529

Met Gly Ser Trp Tyr Met Phe Lys Glu Glu Leu Ala Asp Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Asp Ile Ala Gly Phe Glu Trp Asp Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 530
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 530

Met Gly Ser Trp Tyr Tyr Phe Lys Asp Glu Leu Ala Asp Ile Lys Trp
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Met Leu Ile Ala Gln Phe Glu Leu Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 531
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 531

Met Gly Ser Trp Met Tyr Phe Lys Asp Thr Leu Ala Asp Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Trp Ile Ala Glu Phe Glu Asp Asp Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 532
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 532

Met Gly Ser Trp Tyr Gln Phe Lys His Asp Leu Ala Asp Ile Lys Tyr
1 5 10 15

Gly Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

Asp Asp Ile Ala Asp Phe Glu Leu Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 533
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 533

Met Gly Ser Trp Tyr Val Phe Lys Asp Asp Leu Ala Asp Ile Lys Tyr
1 5 10 15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Trp Glu Ile Ala Asn Phe Glu Phe Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 534
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 534

Met Gly Ser Trp Asn Phe Phe Lys Tyr Asp Leu Ala Asp Ile Met Ala
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Glu Ile Ala Asn Phe Glu His Asp Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 535
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 535

Met Gly Ser Trp His Trp Phe Lys Ile Val Leu Ala Asp Ile Lys Asp
1 5 10 15

Gly Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Thr Thr Ile Ala Asp Phe Glu Met Asp Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 536
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 536

Met Gly Ser Trp His Trp Phe Lys Ile Val Leu Ala Asp Ile Lys Asp
1 5 10 15

Gly Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Thr Thr Ile Ala Asp Phe Glu Met Asp Leu His His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 537
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 537

Met Gly Ser Trp Phe Met Phe Lys Glu Glu Leu Ala Asp Ile Lys Asp
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu

20 25 30

Ser Tyr Ile Ala Trp Phe Glu Gln Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 538
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 538

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

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Trp Asp Ile Ala Glu Phe Glu Trp Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 539
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 539

Met Gly Ser Trp Gln Ile Phe Lys Gly Glu Leu Ala Tyr Ile Lys Gln
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Phe Asp Ile Ala Glu Phe Glu Glu Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 540
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 540

Met Gly Ser Trp Asp Phe Phe Lys Glu Glu Leu Ala Glu Ile Lys His
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Phe Trp Ile Ala Asp Phe Glu Gln Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 541
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 541

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

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Trp Val Ile Ala Asp Phe Glu Asp Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 542
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 542

Met Gly Ser Trp Tyr Gln Phe Lys Thr Glu Leu Ala Trp Ile Lys Asp
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

360
20 25 30

Trp Val Ile Ala Asp Phe Glu Asp Asp Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 543
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 543

Met Gly Ser Trp Phe Glu Phe Lys Asp Tyr Leu Ala Asp Ile Lys Trp
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu
20 25 30

His Asp Ile Ala Tyr Phe Glu His Asn Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 544
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 544

Met Gly Ser Trp Val Arg Phe Lys Asp Phe Leu Ala Asp Ile Lys Met
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Tyr His Ile Ala Glu Phe Glu His Asn Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 545
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 545

Met Gly Ser Trp Trp Leu Phe Lys Glu Gln Leu Ala Leu Ile Lys Tyr
1 5 10 15

Asn Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Ser Trp Ile Ala Glu Phe Glu His Gln Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 546
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 546

Met Gly Ser Trp His Val Phe Lys Thr Glu Leu Ala Asp Ile Lys Phe
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Leu Trp Ile Ala Glu Phe Glu His Glu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 547
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 547

Met Gly Ser Trp Ile Trp Phe Lys Asp Trp Leu Ala Asp Ile Lys Asp
1 5 10 15

Leu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

20 25 30

Tyr Asp Ile Ala Leu Phe Glu Asp Gln Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 548
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 548

Met Gly Ser Trp Gly Trp Phe Lys His Glu Leu Ala Phe Ile Lys Ala
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Glu Glu Ile Ala Glu Phe Glu Tyr Glu Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 549
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 549

Met Gly Ser Trp Thr Trp Phe Lys Asp Asn Leu Ala Trp Ile Lys Glu
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Leu Glu Ile Ala Ser Phe Glu Thr Ala Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 550
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 550

Met Gly Ser Trp Thr Tyr Phe Lys Asn Asp Leu Ala Gly Ile Lys Glu
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Phe Glu Ile Ala Glu Phe Glu Trp Leu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 551
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 551

Met Gly Ser Trp Thr Trp Phe Lys Trp Asp Leu Ala Asp Ile Lys Gly
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Glu Glu Ile Ala Glu Phe Glu Trp Arg Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 552
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 552

Met Gly Ser Trp Leu Tyr Phe Lys Glu Tyr Leu Ala Asp Ile Lys Ser
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

Tyr Glu Ile Ala Asp Phe Glu Glu Gln Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 553
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 553

Met Gly Ser Trp His Trp Phe Lys Glu Glu Leu Ala Glu Ile Lys Glu
1 5 10 15

Asp Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Tyr Asp Ile Ala Met Phe Glu Leu Ser Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 554
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  554

Met Gly Ser Trp Asn Asp Phe Lys Glu Glu Leu Ala Trp Ile Lys Phe
1               5                   10                  15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Glu Asp Ile Ala Met Phe Glu Gln Gln Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  555
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  555

Met Gly Ser Trp Trp Asp Phe Lys Asp Trp Leu Ala Glu Ile Lys His
1               5                   10                  15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
            20                  25                  30

Ser Glu Ile Ala Asp Phe Glu Phe Gly Leu Gln Trp Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 556
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 556

Met Gly Ser Trp Asp Glu Phe Lys Glu Asp Leu Ala His Ile Lys Thr
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
20 25 30

Asp Glu Ile Ala Asp Phe Glu Met Tyr Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 557
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 557

Met Gly Ser Trp Asp Phe Phe Lys Tyr Asp Leu Ala Asn Ile Asn Glu
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu

20 25 30

Tyr Gly Ile Ala Asp Phe Glu Leu Trp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 558
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 558

Met Gly Ser Trp Tyr Gln Phe Lys Asp Asp Leu Ala His Ile Lys His
1 5 10 15

Leu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Tyr Ile Ile Ala Asp Phe Glu Ser Phe Leu Gln Ile Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 559
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  559

Met Gly Ser Trp Ala Glu Phe Lys His Asp Leu Ala Asp Ile Lys Arg
1               5                   10                  15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Leu Ser Ile Ala Phe Phe Glu Asp Glu Leu Gln His Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  560
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  560

Met Gly Ser Trp Val Val Phe Lys Gln Asp Leu Ala Asp Ile Asn His
1               5                   10                  15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Trp Glu Ile Ala Asp Phe Glu Trp Glu Leu Gln His Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 561
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 561

Met Gly Ser Trp Phe Gln Phe Lys Glu Phe Leu Ala Met Ile Thr His
1 5 10 15

Asn Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

His Asp Ile Ala Leu Phe Glu Ser Glu Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 562
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 562

Met Gly Ser Trp His Trp Phe Lys Glu Asp Leu Ala Met Ile Thr Asp
1 5 10 15

Val Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Ser Glu Ile Ala Val Phe Glu Ala Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 563
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 563

Met Gly Ser Trp Ser Trp Phe Gln Trp Asp Leu Ala Gly Ile Lys Asp
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Ser Glu Ile Ala Tyr Phe Glu Asp Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 564
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 564

Met Gly Ser Trp Thr Glu Phe Lys Gly Glu Leu Ala Glu Ile Lys Trp
1 5 10 15

Ile Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Glu Ile Ala Ala Phe Glu Trp Asp Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 565
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 565

Met Gly Ser Trp Phe Glu Phe Lys Trp Thr Leu Ala Leu Ile Lys Gln
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Gln Glu Ile Ala Glu Phe Glu Trp Trp Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 566
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 566

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Met
20 25 30

Asp Glu Ile Met Ala Phe Glu Trp Glu Leu Trp Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Met Asn Glu Ala Phe Ala Ile Asp
50 55 60

Val Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 567
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 567

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Trp Glu Ile Val Ala Phe Phe Ser Glu Leu Phe Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Asp Glu Ala Ile Ala Ile Glu
50 55 60

Thr Glu Leu Val Ala Tyr Arg His Asn
65 70

<210> 568
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 568

Met Gly Ser Trp Trp Glu Phe Asp His Arg Leu Thr Ala Ile Asp Thr
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Ser Ser Ile Ala Glu Phe Glu Trp Trp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Phe Ala Glu Ala Glu Ala Ile Tyr
50 55 60

Val Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 569
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 569

Met Gly Ser Trp Trp Glu Phe Gln Phe Arg Leu Tyr Ala Ile Asp Gln
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Gln Asp Ile Ala Asp Phe Glu Trp Met Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Met Leu Glu Ala Asp Ala Ile Glu
50 55 60

Ala Glu Leu Lys Ala Tyr Arg His Asn
65 70

<210> 570
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 570

Met Gly Ser Trp Tyr Glu Phe Asp His Arg Leu Asp Ala Ile Tyr Gln
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Tyr Gly Ile Ala Glu Phe Glu Glu Tyr Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ile Ser Glu Ala Trp Ala Ile Glu
50 55 60

Trp Glu Leu Ser Ala Tyr Arg His Asn
65 70

<210> 571
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 571

Met Gly Ser Trp Tyr Glu Phe Asp Met Arg Leu Asp Ala Ile Trp Glu
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Gln Tyr Ile Ala Glu Phe Glu Arg Gln Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Phe Asp Glu Ala Trp Ala Ile Glu
50 55 60

Asp Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 572
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 572

Met Gly Ser Trp Ser Glu Phe Asp Ser Arg Leu Asp Ala Ile Ala Tyr
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu

20 25 30

Trp Ile Ile Ala Asp Phe Glu Glu Asp Leu Gln Met Tyr Lys Gly Lys
35 40 45

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

Ile Glu Leu Asn Ala Tyr Arg His Asn
65 70

<210> 573
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 573

Met Gly Ser Trp Tyr Glu Phe Asp Asp Arg Leu Asp Ala Ile Ala Tyr
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Trp Glu Ile Ala Glu Phe Glu Leu Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Val Trp Glu Ala Asp Ala Ile Glu
50 55 60

Trp Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 574
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 574

Met Gly Ser Trp Phe Glu Phe Asp Glu Arg Leu Asp Ala Ile Gly Ser
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Phe Tyr Ile Ala Asp Phe Glu Glu Trp Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Trp Glu Ala Phe Ala Ile Asp
50 55 60

Glu Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 575
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 575

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

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Phe Asp Ile Ala Ala Phe Glu Glu Trp Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Met Glu Ala Phe Ala Ile Thr
50 55 60

Asp Glu Leu Cys Ala Tyr Arg His Asn
65 70

<210> 576
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 576

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

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Phe Asp Ile Ala Trp Phe Glu Met Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Phe Asp Glu Ala Glu Ala Ile Thr
50 55 60

Asn Glu Leu Val Ala Tyr Arg His Asn
65 70

<210> 577
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 577

Met Gly Ser Trp Glu Glu Phe Asp Lys Arg Leu Asp Ala Ile Thr Arg
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

20 25 30

Ser Thr Ile Ala Trp Phe Glu Trp Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Trp Glu Ala Tyr Ala Ile Asp
50 55 60

Tyr Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 578
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 578

Met Gly Ser Trp Tyr Glu Phe Asp His Arg Leu Glu Ala Ile Tyr Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Phe Asp Ile Ala Asp Phe Glu Trp Asp Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Phe Asp Glu Ala Ala Ala Ile Gly
50 55 60

His Glu Leu Leu Ala Tyr Arg His Asn
65 70

<210> 579
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 579

Met Gly Ser Trp Asn Glu Phe Asp Asp Arg Leu Leu Ala Ile Trp Gly
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Glu Gln Ile Ala Gly Phe Glu Asp Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Gln Glu Ala Glu Ala Ile Glu
50 55 60

Lys Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 580
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 580

Met Gly Ser Trp Val Glu Phe Asp Asp Arg Leu Asp Ala Ile Trp Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Glu Gln Ile Ala Val Phe Glu His Gln Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Gln Glu Ala Glu Ala Ile Asp
50 55 60

Leu Glu Leu Lys Ala Tyr Arg His Asn
65 70

<210> 581
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 581

Met Gly Ser Trp Thr Glu Phe Asp Asp Arg Leu Phe Ala Ile Tyr Trp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Glu Val Ile Ala Glu Phe Glu Asn Asp Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Asp Glu Ala His Ala Ile Ser
50 55 60

Ile Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 582
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 582

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

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu

20 25 30

Arg Glu Ile Ala Tyr Phe Glu Asn Gln Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Asn Glu Ala Phe Ala Ile Val
50 55 60

Asp Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 583
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 583

Met Gly Ser Trp Tyr Glu Phe Asp Glu Arg Leu Trp Ala Ile Trp Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

Trp Val Ile Ala Asp Phe Glu Asn Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Phe Glu Ala Glu Ala Ile Val
50 55 60

Thr Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 584
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 584

Met Gly Ser Trp Met Glu Phe Asp Tyr Arg Leu Glu Ala Ile Trp Met
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Ser Ser Ile Ala Asp Phe Glu His His Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Trp Glu Ala Phe Ala Ile Gly
50 55 60

Val Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 585
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 585

Met Gly Ser Trp Tyr Glu Phe Glu Ser Arg Leu Glu Ala Ile Trp Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Gln Tyr Ile Ala Asp Phe Glu Gln His Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Trp Glu Ala Asp Ala Ile Trp
50 55 60

Leu Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 586
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 586

Met Gly Ser Trp Glu Glu Phe Tyr Met Arg Leu Val Ala Ile His Met
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Asn Tyr Ile Ala Glu Phe Glu Glu Tyr Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Thr Ile Glu Ala Asp Ala Ile Gly
50 55 60

Thr Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 587
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 587

Met Gly Ser Trp Asp Glu Phe Tyr Tyr Arg Leu Val Ala Ile Thr His
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

Asp Asp Ile Ala Gly Phe Glu Trp Asp Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Tyr Lys Glu Ala Gly Ala Ile Gly
50 55 60

Met Glu Leu Thr Ala Tyr Arg His Asn
65 70

<210> 588
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 588

Met Gly Ser Trp Glu Glu Phe Asp Thr Arg Leu Leu Ala Ile Phe Gly
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
20 25 30

Met Leu Ile Ala Lys Phe Glu Asp Asp Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ser Glu Glu Ala Phe Ala Ile Asp
50 55 60

His Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 589
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  589

Met Gly Ser Trp Arg Glu Phe Asp Gln Arg Leu Trp Ala Ile Asp Trp
1               5                   10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
            20                  25                  30

Trp Met Ile Ala Thr Phe Glu Asp Asp Leu Gln Trp Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Tyr Arg Glu Ala Phe Ala Ile Asp
    50                  55                  60

Trp Glu Leu Asp Ala Tyr Arg His Asn
65                  70

<210>  590
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  590

Met Gly Ser Trp Glu Glu Phe His Glu Arg Leu Asp Ala Ile Asp Glu
1               5                   10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
            20                  25                  30

Asp Asp Ile Ala Ser Phe Glu Asp Trp Leu Gln Trp Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Ser Arg Glu Ala Asp Ala Ile Asn
    50                  55                  60

Phe Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 591
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 591

Met Gly Ser Trp Asn Glu Phe Tyr Glu Arg Leu Glu Ala Ile Asp Arg
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
20 25 30

Trp Met Ile Ala Asp Phe Glu Asp Asp Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ile Asn Glu Ala Gly Ala Ile Gly
50 55 60

Phe Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 592
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 592

Met Gly Ser Trp Thr Glu Phe Thr Gln Arg Leu Glu Ala Ile Val Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

20 25 30

Asn Ser Ile Ala Asp Phe Glu Trp Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Arg Glu Ala Val Ala Ile Asp
50 55 60

Asn Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 593
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 593

Met Gly Ser Trp Val Glu Phe Ile Met Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Trp His Ile Ala Asp Phe Glu Asp His Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Phe Glu Glu Ala Asp Ala Ile Trp
50 55 60

Glu Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 594
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 594

Met Gly Ser Trp Asn Glu Phe Leu Leu Arg Leu Asp Ala Ile Glu His
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Trp Glu Ile Ala Asp Phe Glu Asp Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Val Glu Glu Ala Glu Ala Ile Asp
50 55 60

Val Glu Leu Val Ala Tyr Arg His Asn
65 70

<210> 595
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 595

Met Gly Ser Trp Tyr Glu Phe Asn Met Arg Leu Gly Ala Ile Asp Asp
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Met Ile Ala Ile Phe Glu Asp Asp Leu Gln Ile Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Gln Glu Ala Ala Ala Ile His
50 55 60

Gln Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 596
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 596

Met Gly Ser Trp Glu Glu Phe His Trp Arg Leu Gly Ala Ile Asp Ala
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Gly Ile Ala Asp Phe Glu Ala Ile Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Ser Glu Ala Val Ala Ile His
50 55 60

His Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 597
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 597

Met Gly Ser Trp Tyr Glu Phe Tyr Glu Arg Leu Trp Ala Ile Asp Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

20 25 30

Asp Ser Ile Ala Thr Phe Glu Pro Ser Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Val Ala Glu Ala Trp Ala Ile Phe
50 55 60

Asp Glu Leu Ala Ala Tyr Arg His Asn
65 70

<210> 598
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 598

Met Gly Ser Trp Phe Glu Phe Asp Gln Arg Leu Asp Ala Ile Thr Phe
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Asp Val Ile Ala Leu Phe Glu Tyr His Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Val Glu Ala Trp Ala Ile Phe
50 55 60

His Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 599
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 599

Met Gly Ser Trp Ser Glu Phe Trp Phe Arg Leu Asp Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Asp Asn Ile Ala Leu Phe Glu Tyr Ser Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Val Lys Glu Ala Asn Ala Ile Asp
50 55 60

Asp Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 600
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 600

Met Gly Ser Trp Tyr Glu Phe Trp Asp Arg Leu Thr Ala Ile Glu His
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Asp Ser Ile Ala His Phe Glu Gly Ser Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Tyr Lys Glu Ala Glu Ala Ile Glu
50 55 60

Trp Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 601
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 601

Met Gly Ser Trp Tyr Glu Phe Asp Asp Arg Leu Trp Ala Ile Phe Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Ser Ile Ala Glu Phe Glu Glu Glu Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Tyr Leu Glu Ala Trp Ala Ile Glu
50 55 60

Asn Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 602
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 602

Met Gly Ser Trp Asn Glu Phe Val Glu Arg Leu Ser Ala Ile Asp His
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu

20 25 30

Gln Gln Ile Ala Glu Phe Glu Ile His Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Phe Glu Ala Asp Ala Ile Phe
50 55 60

Asp Glu Leu Leu Ala Tyr Arg His Asn
65 70

<210> 603
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 603

Met Gly Ser Trp Ser Glu Phe Val Asp Arg Leu Asp Ala Ile Phe Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Thr Ile Ala His Phe Glu Trp Asn Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Gly Glu Ala Asp Ala Ile Thr
50 55 60

Asp Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 604
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  604

Met Gly Ser Trp Ala Glu Phe Asp Ser Arg Leu Asp Ala Ile Ala Gln
1               5                   10                  15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
            20                  25                  30

Asp Phe Ile Ala Gln Phe Glu Tyr Ser Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Ser Asn Glu Ala Asp Ala Ile Phe
    50                  55                  60

Asn Glu Leu Lys Ala Tyr Arg His Asn
65                  70

<210>  605
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  605

Met Gly Ser Trp Ala Glu Phe Asp Ser Arg Leu Ile Ala Ile Phe Asp
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Asp Asp Ile Ala Gln Phe Glu Gln His Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Gln Glu Ala Asp Ala Ile Thr
    50                  55                  60

Phe Glu Leu Lys Ala Tyr Arg His Asn
65 70

<210> 606
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 606

Met Gly Ser Trp Thr Glu Phe Glu Glu Arg Leu Glu Ala Ile Trp Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Trp Asp Ile Ala Tyr Phe Glu Asp Gly Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Phe Met Glu Ala Glu Ala Ile Ile
50 55 60

Arg Glu Leu Lys Ala Tyr Arg His Asn
65 70

<210> 607
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 607

Met Gly Ser Trp Tyr Glu Phe Glu Asp Arg Leu Ala Ala Ile Trp Asp
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu

20 25 30

Trp Asp Ile Ala Trp Phe Glu Glu Gly Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Lys His Glu Ala Ser Ala Ile Gln
50 55 60

Thr Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 608
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 608

Met Gly Ser Trp Leu Glu Phe Glu Ser Arg Leu Trp Ala Ile Trp Asp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

Gln Asp Ile Ala Asp Phe Glu Met Ser Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ile Arg Glu Ala Glu Ala Ile Glu
50 55 60

Thr Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 609
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  609

Met Gly Ser Trp Met Glu Phe Glu Asp Arg Leu Ile Ala Ile Trp Ala
1               5                   10                  15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Ala Asp Ile Ala Asp Phe Glu Glu Ser Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Ile Phe Glu Ala Ile Ala Ile Asn
    50                  55                  60

Lys Glu Leu Met Ala Tyr Arg His Asn
65                  70

<210>  610
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  610

Met Gly Ser Trp Phe Glu Phe Thr Ile Arg Leu Glu Ala Ile Gln Asp
1               5                   10                  15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Trp Asp Ile Ala Glu Phe Glu Glu Gly Leu Gln Phe Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu His Thr Glu Ala Asp Ala Ile Met
    50                  55                  60

Asn Glu Leu Val Ala Tyr Arg His Asn
65 70

<210> 611
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 611

Met Gly Ser Trp Tyr Glu Phe Val Ser Arg Leu Asp Ala Ile Glu Tyr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Trp Asp Ile Ala Asp Phe Glu Gln Gly Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ala Gln Glu Ala Asn Ala Ile Gly
50 55 60

Ser Glu Leu Thr Ala Tyr Arg His Asn
65 70

<210> 612
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 612

Met Gly Ser Trp Glu Glu Phe Asp Tyr Arg Leu Tyr Ala Ile Gln Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu

20 25 30

Trp Glu Ile Ala Asp Phe Glu His Met Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Phe Gln Glu Ala Asp Ala Ile Asp
50 55 60

Ala Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 613
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 613

Met Gly Ser Trp Ile Glu Phe Phe His Arg Leu Asp Ala Ile Gln Asp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Trp Ala Ile Ala Asp Phe Glu His Met Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Gln Phe Glu Ala Phe Ala Ile Glu
50 55 60

Gly Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 614
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  614

Met Gly Ser Trp Tyr Glu Phe Ser Ser Arg Leu Asn Ala Ile Asp Asp
1               5                  10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
            20                  25                  30

Thr Asp Ile Ala Asp Phe Glu Ser Leu Leu Gln Trp Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Leu Asn Glu Ala Asp Ala Ile Asp
    50                  55                  60

Tyr Glu Leu Tyr Ala Tyr Arg His Asn
65                  70

<210>  615
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  615

Met Gly Ser Trp Phe Glu Phe Glu Tyr Arg Leu Asp Ala Ile Ile Asp
1               5                  10                  15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
            20                  25                  30

Ser Met Ile Ala Asn Phe Glu Tyr Ser Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Tyr Phe Glu Ala Asp Ala Ile Val
    50                  55                  60

Asp Glu Leu Thr Ala Tyr Arg His Asn
65 70

<210> 616
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 616

Met Gly Ser Trp Leu Glu Phe Glu Tyr Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Gln Asp Ile Ala Asp Phe Glu Lys Tyr Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Trp Glu Glu Ala Asp Ala Ile Met
50 55 60

Trp Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 617
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 617

Met Gly Ser Trp His Glu Phe Glu Glu Arg Leu Met Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

405

20 25 30

Gln Trp Ile Ala Leu Phe Glu Tyr Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Gly Met Glu Ala Phe Ala Ile Asn
50 55 60

Asn Glu Leu Ser Ala Tyr Arg His Asn
65 70

<210> 618
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 618

Met Gly Ser Trp Tyr Glu Phe Glu Glu Arg Leu Asp Ala Ile Glu Asp
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu
20 25 30

Asp Ile Ile Ala Phe Phe Glu Gln Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Met Glu Ala Glu Ala Ile Ser
50 55 60

Ile Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 619
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 619

Met Gly Ser Trp His Glu Phe Glu Lys Arg Leu Tyr Ala Ile Glu Asp
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Ser Ile Ala Trp Phe Glu Trp Asp Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Glu Glu Ala Asp Ala Ile Tyr
50 55 60

Gln Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 620
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 620

Met Gly Ser Trp Ile Glu Phe Glu Asp Arg Leu Asp Ala Ile Thr Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

His Gln Ile Ala Phe Phe Glu Glu Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu His Met Glu Ala Glu Ala Ile Met
50 55 60

Glu Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 621
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 621

Met Gly Ser Trp Met Glu Phe Glu Asp Arg Leu Met Ala Ile Val Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Trp Asn Ile Ala Met Phe Glu Glu Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Gly Asp Glu Ala Glu Ala Ile Glu
50 55 60

Trp Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 622
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 622

Met Gly Ser Trp Glu Glu Phe Glu Asp Arg Leu Phe Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

20 25 30

Asn Ile Ile Ala Ser Phe Glu Glu Val Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ser Val Glu Ala Phe Ala Ile Asp
50 55 60

Arg Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 623
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 623

Met Gly Ser Trp Glu Glu Phe Leu Phe Arg Leu Glu Ala Ile Gln Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Tyr Glu Ile Ala Ser Phe Glu Asp Val Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ser Thr Glu Ala Lys Ala Ile Asp
50 55 60

Tyr Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 624
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  624

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

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Glu Glu Ile Ala Ser Phe Glu Asp Asn Leu Gln Lys Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Gln Leu Glu Ala Phe Ala Ile Met
    50                  55                  60

Glu Glu Leu Asp Ala Tyr Arg His Asn
65                  70

<210>  625
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  625

Met Gly Ser Trp Phe Glu Phe Asp Asp Arg Leu Glu Ala Ile Phe Asp
1               5                  10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
            20                  25                  30

Phe Ala Ile Ala Glu Phe Glu Asp Ala Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Tyr Glu Glu Ala Val Ala Ile Asp
    50                  55                  60

Glu Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 626
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 626

Met Gly Ser Trp Phe Glu Phe Asp Ala Arg Leu Met Ala Ile Asn Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Tyr His Ile Ala Leu Phe Glu Asp Gln Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Thr Leu Glu Ala Val Ala Ile Asn
50 55 60

Glu Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 627
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 627

Met Gly Ser Trp Val Glu Phe Asp Ser Arg Leu Ala Ala Ile Asp Tyr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

Tyr Thr Ile Ala Asn Phe Glu His Thr Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Val Tyr Glu Ala His Ala Ile Ala
50 55 60

Thr Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 628
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 628

Met Gly Ser Trp Thr Glu Phe Asp Glu Arg Leu Asp Ala Ile Asp Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Gly Asp Ile Ala Leu Phe Glu Gln Tyr Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Met Glu Glu Ala Asp Ala Ile Lys
50 55 60

Ala Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 629
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 629

Met Gly Ser Trp Ile Glu Phe Asp Glu Arg Leu Asp Ala Ile Asp Phe
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Gly Trp Ile Ala Glu Phe Glu Ser Asp Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Glu Glu Ala Asn Ala Ile Phe
50 55 60

His Glu Leu Ser Ala Tyr Arg His Asn
65 70

<210> 630
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 630

Met Gly Ser Trp Trp Glu Phe Asp Ser Arg Leu Asp Ala Ile Asp Phe
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Val Glu Ile Ala Asp Phe Glu Asp Trp Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Trp His Glu Ala Asp Ala Ile Val
50 55 60

Thr Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 631
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 631

Met Gly Ser Trp Tyr Glu Phe Asp Glu Arg Leu Asp Ala Ile Phe Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Gln Val Ile Ala Thr Phe Glu Lys Thr Leu Gln Arg Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Thr Glu Ala Lys Ala Ile Ser
50 55 60

Trp Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 632
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 632

Met Gly Ser Trp Tyr Glu Phe Gln Glu Arg Leu Asp Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

Tyr Thr Ile Ala Glu Phe Glu Lys Glu Leu Gln Met Tyr Lys Gly Lys
35 40 45

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

Glu Glu Leu Met Ala Tyr Arg His Asn
65 70

<210> 633
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 633

Met Gly Ser Trp Glu Glu Phe Glu Asp Arg Leu Trp Ala Ile Asp Gly
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Gln Trp Ile Ala Thr Phe Glu Glu Asp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

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

Glu Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 634
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 634

Met Gly Ser Trp Phe Glu Phe Gly Asp Arg Leu Glu Ala Ile Asp Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Trp Trp Ile Ala Glu Phe Glu His His Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Tyr Glu Ala Asp Ala Ile Trp
50 55 60

Gly Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 635
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 635

Met Gly Ser Trp Phe Glu Phe Asn Asp Arg Leu Asp Ala Ile Ser Glu
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Trp Gln Ile Ala Val Phe Glu Lys Thr Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Thr Leu Glu Ala Asn Ala Ile Phe
50 55 60

Glu Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 636
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 636

Met Gly Ser Trp Val Glu Phe Met Asp Arg Leu Glu Ala Ile Glu Glu
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Trp Glu Ile Ala Glu Phe Glu Glu His Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Trp Glu Ala Leu Ala Ile Thr
50 55 60

Glu Glu Leu Ala Ala Tyr Arg His Asn
65 70

<210> 637
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 637

Met Gly Ser Trp Ile Glu Phe Met Asp Arg Leu Trp Ala Ile Asp Gln
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

20 25 30

Glu Glu Ile Ala Trp Phe Glu Glu Glu Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Trp Glu Ala Thr Ala Ile Ser
50 55 60

Glu Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 638
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 638

Met Gly Ser Trp Glu Glu Phe Asn Trp Arg Leu Arg Ala Ile Asp Glu
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Tyr Asp Ile Ala Glu Phe Glu Glu Gln Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Val Glu Ala Ala Ala Ile Ala
50 55 60

Glu Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 639
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  639

Met Gly Ser Trp Trp Glu Phe Glu Ile Arg Leu Asp Ala Ile Asp Glu
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Gln Ser Ile Ala Phe Phe Glu Asn Asp Leu Gln Val Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Trp Glu Ala Asn Ala Ile Ile
    50                  55                  60

Glu Glu Leu Phe Ala Tyr Arg His Asn
65                  70

<210>  640
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  640

Met Gly Ser Trp Tyr Glu Phe Glu Trp Arg Leu Asp Ala Ile Asp Arg
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
            20                  25                  30

Glu Glu Ile Ala Asp Phe Glu Trp Met Leu Gln Asn Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Val Asp Glu Ala Ser Ala Ile Gln
    50                  55                  60

Thr Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 641
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 641

Met Gly Ser Trp Tyr Glu Phe Val Tyr Arg Leu Arg Ala Ile Asp Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Phe Glu Ile Ala Phe Phe Glu Asp Gln Leu Gln Arg Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Val Asp Glu Ala Gln Ala Ile Asp
50 55 60

Phe Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 642
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 642

Met Gly Ser Trp Trp Glu Phe Glu Asp Arg Leu Tyr Ala Ile Asp Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu

420

20 25 30

Arg Glu Ile Ala Gln Phe Glu Ile Trp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Asp Glu Ala Thr Ala Ile Asn
50 55 60

Ser Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 643
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 643

Met Gly Ser Trp Asp Glu Phe Glu Phe Arg Leu Glu Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Tyr Glu Ile Ala Gln Phe Glu Phe Met Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Gly Met Glu Ala Trp Ala Ile Glu
50 55 60

Asn Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 644
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 644

Met Gly Ser Trp Glu Glu Phe Glu Trp Arg Leu Asp Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Tyr Glu Ile Ala Ile Phe Glu Asn Glu Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Ser Glu Ala Tyr Ala Ile Glu
50 55 60

Arg Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 645
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 645

Met Gly Ser Trp Tyr Glu Phe Phe Asp Arg Leu Asp Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Ala Glu Ile Ala Glu Phe Glu Met Glu Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Val Glu Ala His Ala Ile Glu
50 55 60

Met Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 646
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 646

Met Gly Ser Trp Tyr Glu Phe Met Gly Arg Leu Glu Ala Ile Asp Glu
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

His Glu Ile Ala Glu Phe Glu Trp Ser Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Phe Glu Ala Gly Ala Ile Pro
50 55 60

Trp Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 647
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 647

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

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu

20 25 30

Trp Glu Ile Ala Glu Phe Glu Trp Glu Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Ala Glu Ala Asp Ala Ile Glu
50 55 60

Trp Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 648
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 648

Met Gly Ser Trp Glu Glu Phe His Met Arg Leu Ile Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu
20 25 30

Glu Ser Ile Ala Tyr Phe Glu Ser Gln Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Tyr Glu Ala His Ala Ile Trp
50 55 60

Arg Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 649
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  649

Met Gly Ser Trp Trp Glu Phe Lys Tyr Arg Leu Asp Ala Ile Cys Phe
1               5                   10                  15

Arg Leu Ala Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
            20                  25                  30

Asp Glu Ile Ala Tyr Phe Glu Glu Asp Leu Gln Gly Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Asp Tyr Glu Ala Leu Ala Ile Trp
    50                  55                  60

Asp Glu Leu Ala Ala Tyr Arg His Asn
65                  70

<210>  650
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  650

Met Gly Ser Trp Asp Glu Phe Ala Met Arg Leu Glu Ala Ile Gln Ala
1               5                   10                  15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu
            20                  25                  30

Asp Glu Ile Ala Phe Phe Glu Thr Met Leu Gln Asp Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Glu Tyr Glu Ala Ala Ala Ile Glu
    50                  55                  60

Ala Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 651
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 651

Met Gly Ser Trp Trp Glu Phe Asn Ala Arg Leu Asp Ala Ile Glu Asp
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Asp Ile Ile Ala Ser Phe Glu Asn Ile Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Trp Tyr Glu Ala Tyr Ala Ile Glu
50 55 60

Lys Glu Leu Asn Ala Tyr Arg His Asn
65 70

<210> 652
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 652

Met Gly Ser Trp Ile Glu Phe Trp Asn Arg Leu Glu Ala Ile Glu Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu

20 25 30

Asp Glu Ile Ala Glu Phe Glu Ile Tyr Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Lys His Glu Ala Glu Ala Ile Asn
50 55 60

Lys Glu Leu Met Ala Tyr Arg His Asn
65 70

<210> 653
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 653

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

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Asp Glu Ile Ala Thr Phe Glu Tyr Glu Leu Gln Arg Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Tyr Glu Ala Glu Ala Ile Val
50 55 60

Ser Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 654
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  654

Met Gly Ser Trp Tyr Glu Phe Leu Ala Arg Leu Tyr Ala Ile Asp Glu
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
            20                  25                  30

His Trp Ile Ala Asp Phe Glu Glu Gln Leu Gln Ser Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Thr Asp Glu Ala Val Ala Ile Gly
    50                  55                  60

Glu Glu Leu Ser Ala Tyr Arg His Asn
65                  70

<210>  655
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  655

Met Gly Ser Trp Leu Glu Phe Glu Thr Arg Leu His Ala Ile Asp Glu
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
            20                  25                  30

Glu His Ile Ala Trp Phe Glu Glu Asp Leu Gln Phe Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Asp Phe Glu Ala Asp Ala Ile Gly
    50                  55                  60

Trp Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 656
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 656

Met Gly Ser Trp Phe Glu Phe Glu Thr Arg Leu Glu Ala Ile Asp Leu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Asp Val Ile Ala Phe Phe Glu Asp Trp Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Lys Met Glu Ala Trp Ala Ile Gly
50 55 60

Glu Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 657
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 657

Met Gly Ser Trp His Glu Phe Trp Gln Arg Leu Glu Ala Ile Glu Gly
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu

20 25 30

Ser Leu Ile Ala Asp Phe Glu Glu Gln Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Met Ala Glu Ala Glu Ala Ile Asp
50 55 60

Asn Glu Leu Arg Ala Tyr Arg His Asn
65 70

<210> 658
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 658

Met Gly Ser Trp Tyr Glu Phe Glu Gln Arg Leu Glu Ala Ile Glu Trp
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Glu Asp Ile Ala Asp Phe Glu Glu Trp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Gln Tyr Glu Ala Tyr Ala Ile Ala
50 55 60

Glu Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 659
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  659

Met Gly Ser Trp Tyr Glu Phe Glu Asn Arg Leu Phe Ala Ile Glu Glu
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
            20                  25                  30

Tyr Glu Ile Ala Asn Phe Glu Trp Gly Leu Gln Ser Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Asp Asn Glu Ala Glu Ala Ile Asp
    50                  55                  60

Ile Glu Leu Ala Ala Tyr Arg His Asn
65                  70

<210>  660
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  660

Met Gly Ser Trp Tyr Glu Phe Glu Gln Arg Leu Gly Ala Ile Glu Glu
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Asp Ile Ile Ala Tyr Phe Glu Tyr Gln Leu Gln Ser Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Asp Glu Glu Ala Trp Ala Ile Asp
    50                  55                  60

Asp Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 661
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 661

Met Gly Ser Trp Trp Glu Phe Glu Gln Arg Leu Asp Ala Ile Glu Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

His Ile Ile Ala Asp Phe Glu Asp Glu Leu Gln Ile Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Gly Trp Glu Ala Phe Ala Ile Asp
50 55 60

Gly Glu Leu Thr Ala Tyr Arg His Asn
65 70

<210> 662
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 662

Met Gly Ser Trp Phe Glu Phe Pro Tyr Arg Leu Glu Ala Ile Glu Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu

20 25 30

Gln Phe Ile Ala Trp Phe Glu Met Asp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Trp Phe Glu Ala Asn Ala Ile Val
50 55 60

Glu Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 663
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 663

Met Gly Ser Trp Val Glu Phe Tyr Asp Arg Leu Glu Ala Ile Glu Ile
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Ser Phe Ile Ala His Phe Glu Asp Asp Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Met Asp Glu Ala Asn Ala Ile Val
50 55 60

Phe Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 664
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  664

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Asp Ala Ile Glu Glu
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
            20                  25                  30

Phe Met Ile Ala Met Phe Glu Gln His Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Ile Pro Glu Ala Gly Ala Ile Asp
    50                  55                  60

Lys Glu Leu Thr Ala Tyr Arg His Asn
65                  70

<210>  665
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  665

Met Gly Ser Trp Asp Glu Phe Asp Ala Arg Leu Trp Ala Ile Glu Glu
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
            20                  25                  30

Phe Met Ile Ala Ala Phe Glu Asp Val Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Met Gly Glu Ala Asn Ala Ile Val
    50                  55                  60

Met Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 666
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 666

Met Gly Ser Trp Tyr Glu Phe Trp Arg Arg Leu Asp Ala Ile Glu Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Thr Asp Ile Ala Gly Phe Glu Trp Met Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu His Glu Ala Trp Ala Ile Asn
50 55 60

Ser Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 667
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 667

Met Gly Ser Trp His Glu Phe Ile Trp Arg Leu Asp Ala Ile Glu Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu

435

20 25 30

Thr Glu Ile Ala Thr Phe Glu Ala Gln Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Trp Glu Ala Ile Ala Ile Ala
50 55 60

Trp Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 668
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 668

Met Gly Ser Trp Tyr Glu Phe Tyr Trp Arg Leu Glu Ala Ile Glu Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Lys Ala Ile Ala Thr Phe Glu Asp Gln Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Thr Glu Ala Leu Ala Ile His
50 55 60

Ala Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 669
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 669

Met Gly Ser Trp Phe Glu Phe Gln Trp Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Thr Ile Ile Ala Gly Phe Glu Glu Gln Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Glu Glu Ala Met Ala Ile Gln
50 55 60

Thr Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 670
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 670

Met Gly Ser Trp Trp Glu Phe Glu Asp Arg Leu Trp Ala Ile Glu Gln
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Asn Ser Ile Ala Lys Phe Glu Asp Met Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu His Glu Glu Ala Asp Ala Ile Ile
50 55 60

Trp Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 671
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 671

Met Gly Ser Trp Trp Glu Phe Glu Asp Arg Leu Trp Ala Ile Asp Arg
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Gln Met Ile Ala His Phe Glu Gln Ile Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu His Phe Glu Ala His Ala Ile Gly
50 55 60

Met Glu Leu Ala Ala Tyr Arg His Asn
65 70

<210> 672
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 672

Met Gly Ser Trp Trp Glu Phe Leu Asp Arg Leu Glu Ala Ile Glu Tyr
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu

20 25 30

Trp Glu Ile Ala Met Phe Glu Asp His Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu His Ser Glu Ala His Ala Ile Ile
50 55 60

Ser Glu Leu Ser Ala Tyr Arg His Asn
65 70

<210> 673
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 673

Met Gly Ser Trp Ala Glu Phe Glu Asp Arg Leu Ala Ala Ile Glu Arg
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Ser Ser Ile Ala Trp Phe Glu Pro Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Met Tyr Glu Ala Glu Ala Ile Phe
50 55 60

Ser Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 674
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 674

Met Gly Ser Trp Trp Glu Phe Tyr Asp Arg Leu Thr Ala Ile Glu Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Glu Gly Ile Ala Asp Phe Glu Tyr Asp Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Phe Trp Glu Ala Trp Ala Ile Gln
50 55 60

Ser Glu Leu Thr Ala Tyr Arg His Asn
65 70

<210> 675
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 675

Met Gly Ser Trp Tyr Glu Phe Glu Asp Arg Leu Ala Ala Ile Glu Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Glu Glu Ile Ala Tyr Phe Glu His Gly Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Ser Glu Ala Met Ala Ile Ile
50 55 60

Asp Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 676
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 676

Met Gly Ser Trp Trp Glu Phe Ser Trp Arg Leu Glu Ala Ile Glu Thr
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Met Asp Ile Ala Trp Phe Glu Gln Asp Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Glu Glu Ala Tyr Ala Ile Tyr
50 55 60

Glu Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 677
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 677

Met Gly Ser Trp Glu Glu Phe Phe Phe Arg Leu Glu Ala Ile Asp Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu

20 25 30

Glu Val Ile Ala Tyr Phe Glu Gln Asp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Tyr Val Glu Ala Tyr Ala Ile Gln
50 55 60

Glu Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 678
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 678

Met Gly Ser Trp Phe Glu Phe Glu Glu Arg Leu Asn Ala Ile Ser Trp
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Glu Asp Ile Ala Trp Phe Glu Asp Asp Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Asn Glu Ala Tyr Ala Ile Trp
50 55 60

Glu Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 679
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 679

Met Gly Ser Trp Phe Glu Phe Glu Glu Arg Leu Glu Ala Ile Ile Tyr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Glu Ser Ile Ala Trp Phe Glu Ser Asp Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Tyr Glu Ala Met Ala Ile Ser
50 55 60

Lys Glu Leu Lys Ala Tyr Arg His Asn
65 70

<210> 680
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 680

Met Gly Ser Trp Ala Glu Phe Asp Asp Arg Leu Glu Ala Ile Glu Tyr
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Glu Gly Ile Ala Gly Phe Glu His Ala Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Thr Glu Ala Gly Ala Ile Asn
50 55 60

Glu Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 681
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 681

Met Gly Ser Trp Asp Glu Phe Glu Glu Arg Leu Gln Ala Ile Glu Tyr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Glu Val Ile Ala Gln Phe Glu Tyr Asp Leu Gln Lys Tyr Lys Gly Lys
35 40 45

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

Asp Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 682
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 682

Met Gly Ser Trp Trp Glu Phe Thr Asp Arg Leu Asp Ala Ile Phe Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Glu Ser Ile Ala Ile Phe Glu Gln Asp Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Tyr Glu Ala Asn Ala Ile Gln
50 55 60

Tyr Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 683
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 683

Met Gly Ser Trp Trp Glu Phe Thr Asp Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

Asp Ser Ile Ala Gln Phe Glu Gln Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ala Asp Glu Ala Asp Ala Ile Glu
50 55 60

Ser Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 684
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 684

Met Gly Ser Trp Val Glu Phe Phe Trp Arg Leu Asp Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu
20 25 30

Phe Glu Ile Ala Asp Phe Glu Ala Trp Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu His Ser Glu Ala Asp Ala Ile Gln
50 55 60

Leu Glu Leu Arg Ala Tyr Arg His Asn
65 70

<210> 685
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 685

Met Gly Ser Trp Val Glu Phe Tyr Asn Arg Leu Asp Ala Ile Glu Asn
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Glu Leu Ile Ala Gln Phe Glu Phe Ala Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Asp Glu Ala Asp Ala Ile Trp
50 55 60

Glu Glu Leu Met Ala Tyr Arg His Asn
65 70

<210> 686
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 686

Met Gly Ser Trp Glu Glu Phe Tyr Tyr Arg Leu His Ala Ile Asp Asn
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Trp His Ile Ala Asp Phe Glu Leu Glu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

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

Glu Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 687
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 687

Met Gly Ser Trp Arg Glu Phe His Asp Arg Leu Phe Ala Ile Asp Gly
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu

20 25 30

Trp Asp Ile Ala Asp Phe Glu Phe Glu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ser Trp Glu Ala Asp Ala Ile Met
50 55 60

Gln Glu Leu Gly Ala Tyr Arg His Asn
65 70

<210> 688
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 688

Met Gly Ser Trp Glu Glu Phe Asp Glu Arg Leu Trp Ala Ile Ser Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Gly Glu Ile Ala Tyr Phe Glu Gln Asn Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Gln Thr Glu Ala Leu Ala Ile Asp
50 55 60

Thr Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 689
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  689

Met Gly Ser Trp Glu Glu Phe Glu Gln Arg Leu Trp Ala Ile Asp Asp
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
            20                  25                  30

Tyr Glu Ile Ala Glu Phe Glu Met Asp Leu Gln Trp Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Phe Tyr Glu Ala His Ala Ile Asn
    50                  55                  60

Glu Glu Leu Trp Ala Tyr Arg His Asn
65                  70

<210>  690
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  690

Met Gly Ser Trp Asp Glu Phe His Gln Arg Leu Ala Ala Ile Gly Asp
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
            20                  25                  30

Trp Glu Ile Ala Thr Phe Glu Trp Asp Leu Gln Val Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Tyr Phe Glu Ala Thr Ala Ile Asp
    50                  55                  60

Glu Glu Leu Met Ala Tyr Arg His Asn
65 70

<210> 691
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 691

Met Gly Ser Trp Val Glu Phe Glu Tyr Arg Leu Asp Ala Ile Ser Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asn Glu Ile Ala Ser Phe Glu Ser Asp Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Met Phe Glu Ala Glu Ala Ile Asp
50 55 60

Asp Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 692
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 692

Met Gly Ser Trp Asp Glu Phe Asp Thr Arg Leu Asp Ala Ile Phe Ser
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu

450
20 25 30

Gly Glu Ile Ala Glu Phe Glu Gly Ser Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Phe Glu Ala His Ala Ile Asp
50 55 60

Glu Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 693
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 693

Met Gly Ser Trp His Glu Phe Asp Asp Arg Leu Asp Ala Ile Met Ser
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Ala Glu Ile Ala Thr Phe Glu Phe Val Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Leu Ala Glu Ala Tyr Ala Ile Asp
50 55 60

Trp Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 694
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 694

Met Gly Ser Trp Tyr Glu Phe Phe Asp Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Ala Gln Ile Ala Glu Phe Glu Val Glu Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Trp Glu Ala Trp Ala Ile Asp
50 55 60

Glu Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 695
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 695

Met Gly Ser Trp Phe Glu Phe Leu Tyr Arg Leu Asp Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Gln Glu Ile Ala Lys Phe Glu Ser Glu Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Trp Glu Ala His Ala Ile Asp
50 55 60

Met Glu Leu Glu Ala Tyr Arg His Asn
65 70

<210> 696
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 696

Met Gly Ser Trp Leu Glu Phe Glu Asp Arg Leu Val Ala Ile Asp His
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Glu Glu Ile Ala Leu Phe Glu Ser Tyr Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Trp Glu Ala Asp Ala Ile His
50 55 60

Ala Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 697
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 697

Met Gly Ser Trp Tyr Glu Phe Glu Ser Arg Leu Asp Ala Ile Val Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

20 25 30

Tyr Glu Ile Ala Lys Phe Glu Trp Glu Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asn Trp Glu Ala Gly Ala Ile Glu
50 55 60

Phe Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 698
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 698

Met Gly Ser Trp Tyr Glu Phe Glu Asp Arg Leu Asp Ala Ile Leu Tyr
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Arg Asp Ile Ala Phe Phe Glu Ser Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Trp Glu Ala Met Ala Ile Asp
50 55 60

Asp Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 699
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 699

Met Gly Ser Trp Gly Glu Phe Met Asp Arg Leu Glu Ala Ile Asp Tyr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Ser Asp Ile Ala Glu Phe Glu Gln Glu Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Trp Asp Glu Ala Met Ala Ile Arg
50 55 60

Asp Glu Leu Phe Ala Tyr Arg His Asn
65 70

<210> 700
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 700

Met Gly Ser Trp Glu Glu Phe Asp Asp Arg Leu Asp Ala Ile Glu His
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Gly Ser Ile Ala Ala Phe Glu Ser Trp Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Ala Glu Ala Glu Ala Ile Ala
50 55 60

Asp Glu Leu Trp Ala Tyr Arg His Asn
65 70

<210> 701
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 701

Met Gly Ser Trp Tyr Glu Phe Ala Asp Arg Leu Asp Ala Ile Met Asp
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Trp Glu Ile Ala Ala Phe Glu Glu Phe Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Glu Glu Ala Glu Ala Ile Lys
50 55 60

Asp Glu Leu Met Ala Tyr Arg His Asn
65 70

<210> 702
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 702

Met Gly Ser Trp Asn Glu Phe Trp Glu Arg Leu Asp Ala Ile Glu Trp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu

20 25 30

Leu Asp Ile Ala Trp Phe Glu Glu Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Ile Phe Glu Ala His Ala Ile Thr
50 55 60

Leu Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 703
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 703

Met Gly Ser Trp Tyr Glu Phe Asp Ala Arg Leu Asp Ala Ile Glu Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Phe Glu Ile Ala Gly Phe Glu Glu Ala Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Leu Lys Glu Ala Glu Ala Ile Thr
50 55 60

Asp Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 704
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 704

Met Gly Ser Trp Asp Glu Phe Ser Glu Arg Leu Asp Ala Ile Trp Gly
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Phe His Ile Ala Glu Phe Glu His Glu Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Gln Gly Glu Ala Ala Ala Ile Ile
50 55 60

Asn Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 705
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 705

Met Gly Ser Trp Asp Glu Phe Trp Asp Arg Leu Asp Ala Ile Glu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Arg Val Ile Ala Trp Phe Glu Asn Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Asp Asn Glu Ala Asp Ala Ile Arg
50 55 60

Ile Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 706
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 706

Met Gly Ser Trp Asp Glu Phe Asp Asp Arg Leu Glu Ala Ile Val Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Phe Glu Ile Ala Gln Phe Glu His Gln Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Asp Glu Ala Asp Ala Ile Trp
50 55 60

Ile Glu Leu Asp Ala Tyr Arg His Asn
65 70

<210> 707
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 707

Met Gly Ser Trp Glu Glu Phe Thr Ile Arg Leu Gly Ala Ile Tyr Trp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu

20 25 30

Trp Phe Ile Ala Glu Phe Glu Tyr Glu Leu Gln Pro Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Val Ile Glu Ala Asn Ala Ile Asp
50 55 60

Gly Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 708
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 708

Met Gly Ser Trp Phe Glu Phe Glu Trp Arg Leu Asp Ala Ile Glu Asn
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Tyr His Ile Ala Ala Phe Glu Asp Ser Leu Gln His Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Trp Glu Ala His Ala Ile Gln
50 55 60

Ser Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 709
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  709

Met Gly Ser Trp Tyr Glu Phe Asp Asp Arg Leu Glu Ala Ile Trp Asp
1               5                   10                  15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Thr Ala Ala Asp Ile Arg
    50                  55                  60

Ala Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  710
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  710

Met Gly Ser Trp Gly Glu Phe Trp Ala Arg Leu Glu Ala Ile Trp Ile
1               5                   10                  15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Glu Ala Ala Asp Ile Arg
    50                  55                  60

Arg Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 711
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 711

Met Gly Ser Trp Ile Glu Phe Glu Val Arg Leu Asp Ala Ile Trp Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Asp Glu Ala Ala Asp Ile Arg
50 55 60

Gln Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 712
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 712

Met Gly Ser Trp Thr Glu Phe Asp Arg Arg Leu Asp Ala Ile Trp Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Glu Ala Ala Asp Ile Arg
50 55 60

Asp Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 713
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 713

Met Gly Ser Trp Thr Glu Phe Asp Met Arg Leu Asp Ala Ile Trp Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Glu Glu Ala Ala Thr Ile Arg
50 55 60

Gly Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 714
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 714

Met Gly Ser Trp Glu Glu Phe His Asp Arg Leu Met Ala Ile Glu Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Tyr Glu Ala Ala Asp Ile Arg
50 55 60

Asp Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 715
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 715

Met Gly Ser Trp Val Glu Phe Arg Asp Arg Leu Asp Ala Ile Glu Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Tyr Glu Ala Ala Glu Ile Arg
50 55 60

Met Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 716
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 716

Met Gly Ser Trp Met Glu Phe Ile Asp Arg Leu Asp Ala Ile Glu His
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu Glu Ala Ala Glu Ile Arg
50 55 60

Met Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 717
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 717

Met Gly Ser Trp Thr Glu Phe Val Trp Arg Leu Asp Ala Ile Glu Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu Glu Ala Ala Glu Ile Arg
50 55 60

Asp Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 718
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 718

Met Gly Ser Trp Val Glu Phe Tyr Asp Arg Leu Tyr Ala Ile Glu Val
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Gln Glu Ala Ala Glu Ile Arg
50 55 60

Asp Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 719
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  719

Met Gly Ser Trp Tyr Glu Phe Tyr Asp Arg Leu Asp Ala Ile Glu Trp
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg Asp Glu Ala Ala Gln Ile Arg
    50                  55                  60

Asp Phe Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  720
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  720

Met Gly Ser Trp Val Glu Phe Tyr Asp Arg Leu Asp Ala Ile Glu His
1               5                   10                  15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg Asp Glu Ala Ala Phe Ile Arg
    50                  55                  60

Asp Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 721
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 721

Met Gly Ser Trp Phe Glu Phe Val Asp Arg Leu Thr Ala Ile Gln Val
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu Glu Ala Ala Leu Ile Arg
50 55 60

Tyr Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 722
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 722

Met Gly Ser Trp Phe Glu Phe Leu Asp Arg Leu Asp Ala Ile Glu Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Glu Ala Ala Val Ile Arg
50 55 60

Asp Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 723
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 723

Met Gly Ser Trp Tyr Glu Phe Met Val Arg Leu Asp Ala Ile Glu Glu
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu Glu Ala Ala Ser Ile Arg
50 55 60

Tyr His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 724
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  724

Met Gly Ser Trp Tyr Glu Phe Glu Asp Arg Leu Asp Ala Ile Gln Trp
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu Ser Ala Ala Asn Ile Arg
    50                  55                  60

Gln His Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  725
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  725

Met Gly Ser Trp Ser Glu Phe Glu Tyr Arg Leu Phe Ala Ile Glu Asn
1               5                   10                  15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu Glu Ala Ala Met Ile Arg
    50                  55                  60

Gln Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 726
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 726

Met Gly Ser Trp Val Glu Phe Glu Tyr Arg Leu Asp Ala Ile Thr Glu
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Glu Glu Ala Ala Phe Ile Arg
50 55 60

Gln Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 727
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 727

Met Gly Ser Trp Trp Glu Phe Leu Asp Arg Leu Asp Ala Ile Glu Met
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu Glu Ala Ala Leu Ile Arg
50 55 60

Asn Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 728
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 728

Met Gly Ser Trp Trp Glu Phe Glu Asp Arg Leu Asp Ala Ile Glu Tyr
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu Glu Ala Ala Phe Ile Arg
50 55 60

Ile Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 729
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  729

Met Gly Ser Trp Trp Glu Phe Glu Ser Arg Leu Asp Ala Ile Phe Met
1               5                   10                  15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Asp Leu Arg Glu Asp Ala Ala Phe Ile Arg
    50                  55                  60

Glu Phe Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  730
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  730

Met Gly Ser Trp Val Glu Phe Trp His Arg Leu Asp Ala Ile Lys Ala
1               5                   10                  15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Asp Leu Arg Trp Tyr Ala Ala Asp Phe Arg
    50                  55                  60

Leu Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 731
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 731

Met Gly Ser Trp Tyr Glu Phe Tyr Asn Arg Leu Ser Ala Ile Tyr Ala
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Trp Tyr Ala Ala Asp Ile Arg
50 55 60

Tyr Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 732
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 732

Met Gly Ser Trp Tyr Glu Phe Tyr Asp Arg Leu Ser Ala Ile Tyr Ala
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Trp Tyr Ala Ala Asp Ile Arg
50 55 60

Tyr Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 733
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 733

Met Gly Ser Trp Asn Glu Phe Tyr Asp Arg Leu Ser Ala Ile Tyr Phe
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Trp Tyr Ala Ala Asp Ile Arg
50 55 60

Met Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 734
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 734

Met Gly Ser Trp Asn Glu Phe Tyr Asp Arg Leu Ser Ala Ile Tyr Phe
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Phe Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Trp Tyr Ala Ala Asp Ile Arg
50 55 60

Met Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 735
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 735

Met Gly Ser Trp Glu Glu Phe Tyr Asp Arg Leu Gly Ala Ile Phe Ala
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Trp Tyr Ala Ala Asp Ile Arg
50 55 60

Met Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 736
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 736

Met Gly Ser Trp Val Glu Phe Tyr Asp Arg Leu His Ala Ile Tyr Phe
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Trp Tyr Ala Ala Asp Ile Arg
50 55 60

Leu Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 737
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 737

Met Gly Ser Trp Lys Glu Phe Asp Asn Arg Leu Tyr Ala Ile Glu Asp
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Trp Tyr Ala Ala Asp Ile Arg
50 55 60

Met Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 738
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 738

Met Gly Ser Trp Val Glu Phe Trp Asp Arg Leu Trp Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg His Tyr Ala Ala Asp Ile Arg
50 55 60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 739
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 739

Met Gly Ser Trp Tyr Glu Phe Ala Asp Arg Leu Trp Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Tyr Tyr Ala Ala Asp Ile Arg
50 55 60

Trp Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 740
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 740

Met Gly Ser Trp Tyr Glu Phe Glu Glu Arg Leu Tyr Ala Ile Glu Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Gln Glu Ala Ala Asp Ile Arg
50 55 60

Leu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 741
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 741

Met Gly Ser Trp Thr Glu Phe Glu Trp Arg Leu Tyr Ala Ile Glu Asp
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Asp Glu Ala Ala Asp Ile Arg
50 55 60

Gln Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 742
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 742

Met Gly Ser Trp Ile Glu Phe Glu Ser Arg Leu Trp Ala Ile Glu Asp
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

480
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Leu Glu Ala Ala Asp Ile Arg
50 55 60

Glu Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 743
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 743

Met Gly Ser Trp Phe Glu Phe Glu Asp Arg Leu Asp Ala Ile Trp Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Met Asp Ala Ala Met Ile Arg
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 744
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 744

Met Gly Ser Trp Glu Glu Phe Glu Asp Arg Leu Trp Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Tyr Asp Ala Ala Tyr Ile Arg
50 55 60

Glu Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 745
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 745

Met Gly Ser Trp Ile Glu Phe Glu Asp Arg Leu Tyr Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Tyr Glu Ala Ala Glu Ile Arg
50 55 60

Tyr Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 746
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 746

Met Gly Ser Trp Tyr Glu Phe Trp Asp Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Tyr Ser Ala Ala Glu Ile Arg
50 55 60

Tyr Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 747
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 747

Met Gly Ser Trp Val Glu Phe Glu Ser Arg Leu Ala Ala Ile Glu His
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Glu Tyr Ala Ala Glu Ile Arg
50 55 60

Asp Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 748
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 748

Met Gly Ser Trp Trp Glu Phe Glu His Arg Leu Phe Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Asp Tyr Ala Ala Glu Ile Arg
50 55 60

Asp Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 749
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 749

Met Gly Ser Trp Tyr Glu Phe Asp Ser Arg Leu Met Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Gln Glu Ala Ala Glu Ile Arg
50 55 60

Met Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 750
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 750

Met Gly Ser Trp Tyr Glu Phe Glu Trp Arg Leu Met Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg His Glu Ala Ala Glu Ile Arg
50 55 60

Asp Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 751
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 751

Met Gly Ser Trp Tyr Glu Phe Tyr Asn Arg Leu Asp Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Gln Glu Ala Ala Asp Ile Arg
50 55 60

Gly Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 752
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 752

Met Gly Ser Trp Trp Glu Phe His Asp Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Ile Glu Ala Ala Asp Ile Arg
50 55 60

Arg Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 753
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 753

Met Gly Ser Trp Tyr Glu Phe Trp Asp Arg Leu Glu Ala Ile Glu Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Leu Glu Ala Ala Asp Ile Arg
50 55 60

Arg Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 754
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 754

Met Gly Ser Trp Tyr Glu Phe Glu Glu Arg Leu Trp Ala Ile Glu Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Tyr Glu Ala Ala Trp Ile Arg
50 55 60

Asp Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 755
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 755

Met Gly Ser Trp Tyr Glu Phe Glu Asn Arg Leu Glu Ala Ile Glu Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Glu Glu Ala Ala Phe Ile Arg
50 55 60

Asp Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 756
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 756

Met Gly Ser Trp Tyr Glu Phe Glu Tyr Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu Glu Ala Ala Trp Ile Arg
50 55 60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 757
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 757

Met Gly Ser Trp Tyr Glu Phe Glu Asn Arg Leu Gly Ala Ile Gly Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Asp Glu Ala Ala Tyr Ile Arg
50 55 60

Ala Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 758
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 758

Met Gly Ser Trp Tyr Glu Phe Glu His Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Glu Ala Ala Trp Ile Arg
50 55 60

Leu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 759
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  759

Met Gly Ser Trp Tyr Glu Phe Glu Trp Arg Leu Asp Ala Ile Tyr Asp
1               5                   10                  15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Asp Ala Ala Glu Ile Arg
    50                  55                  60

Ala Leu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  760
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  760

Met Gly Ser Trp Val Glu Phe Glu Asn Arg Leu Glu Ala Ile Glu Asn
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Asp Ala Ala Gln Ile Arg
    50                  55                  60

Met Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 761
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 761

Met Gly Ser Trp Tyr Glu Phe Glu Glu Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Gln Ala Ala Phe Ile Arg
50 55 60

Thr Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 762
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 762

Met Gly Ser Trp Phe Glu Phe Glu Trp Arg Leu Glu Ala Ile Phe Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Ala Glu Ala Ala Glu Ile Arg
50 55 60

Leu Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 763
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 763

Met Gly Ser Trp Trp Glu Phe Glu Asp Arg Leu Met Ala Ile Tyr Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Ala Glu Ala Ala Leu Ile Arg
50 55 60

Glu Thr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 764
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 764

Met Gly Ser Trp Phe Glu Phe Glu Asp Arg Leu Tyr Ala Ile Glu Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Trp Gly Ala Ala Thr Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 765
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 765

Met Gly Ser Trp Ile Glu Phe Trp Asp Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Asp Glu Ala Ala Trp Ile Arg
50 55 60

Asp Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 766
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 766

Met Gly Ser Trp Phe Glu Phe Trp Asp Arg Leu Asp Ala Ile Glu Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Asp Glu Ala Ala Trp Ile Arg
50 55 60

Gly Thr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 767
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 767

Met Gly Ser Trp Glu Glu Phe Thr Asp Arg Leu Trp Ala Ile Glu Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Asp Glu Ala Ala Phe Ile Arg
50 55 60

Lys Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 768
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 768

Met Gly Ser Trp Val Glu Phe Val Asp Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Asp Gln Ala Ala Tyr Ile Arg
50 55 60

Phe Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 769
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 769

Met Gly Ser Trp Phe Glu Phe Val Asp Arg Leu Glu Ala Ile Glu Met
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Trp Arg Ala Ala Met Ile Arg
50 55 60

Tyr Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 770
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 770

Met Gly Ser Trp Trp Glu Phe Glu Met Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Trp Glu Ala Ala Phe Ile Arg
50 55 60

Asp Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 771
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 771

Met Gly Ser Trp Phe Glu Phe Glu Ile Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Asp Glu Ala Ala Glu Ile Arg
50 55 60

Gln Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 772
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 772

Met Gly Ser Trp Tyr Glu Phe Tyr Gln Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Asp Glu Ala Ala Glu Ile Arg
50 55 60

Val Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 773
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 773

Met Gly Ser Trp Ile Glu Phe Glu Asp Arg Leu Glu Ala Ile Glu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Glu Ala Ala Glu Ile Arg
50 55 60

Leu Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 774

<400> 774
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<210> 775

<400> 775
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<210> 776

<400> 776
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<210> 777

<400> 777
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<210> 778

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<210> 779

<400> 779
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<210> 780
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 780

Met Gly Ser Trp Val Glu Phe Glu Ala Arg Leu Ser Ala Ile Tyr Glu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Arg His Ala Ala Gly Ile Arg
50 55 60

Ser Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 781
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 781

Met Gly Ser Trp Val Glu Phe Phe Val Arg Leu Asp Ala Ile Trp Glu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Phe His Ala Ala Gly Ile Arg
50 55 60

Gln Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 782
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 782

Met Gly Ser Trp Thr Glu Phe Asn Leu Arg Leu Asp Ala Ile Tyr Glu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Trp His Ala Ala Gly Ile Arg
50 55 60

Gln Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 783
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 783

Met Gly Ser Trp Met Glu Phe Tyr Asp Arg Leu Asp Ala Ile Trp Val
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Phe His Ala Ala Gly Ile Arg
50 55 60

Glu Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 784
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 784

Met Gly Ser Trp His Glu Phe Asn Gly Arg Leu Trp Ala Ile Tyr Ala
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Arg His Ala Ala Gly Ile Arg
50 55 60

Gly Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 785
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 785

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

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Arg His Ala Ala Gly Ile Arg
50 55 60

Tyr Thr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 786
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 786

Met Gly Ser Trp Ala Glu Phe Tyr Gln Arg Leu Asn Ala Ile Trp Asn
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Arg His Ala Ala Gly Ile Arg
50 55 60

Gly Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 787
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 787

Met Gly Ser Trp Val Glu Phe Asn Glu Arg Leu His Ala Ile Tyr Leu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Arg His Ala Ala Gly Ile Arg
50 55 60

Trp Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 788
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 788

Met Gly Ser Trp Asn Glu Phe Lys Leu Glu Leu Ala Phe Ile Lys Asp
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu
20 25 30

Glu Ala Ile Ala Glu Phe Glu Ala Gly Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 789
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  789

Met Gly Ser Trp Met Glu Phe Glu Ala Arg Leu Glu Ala Ile Trp Asp
1               5                  10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ser Leu Arg Phe His Ala Ala Gly Ile Arg
    50                  55                  60

Gln His Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  790
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  790

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

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Lys Leu Arg Arg His Ala Ala Gly Ile Arg
    50                  55                  60

Thr Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 791
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 791

Met Gly Ser Trp His His Phe Lys Met His Leu Ala Gly Ile Lys Leu
1 5 10 15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Glu Trp Ile Ala Asp Phe Glu Gly Ala Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 792
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 792

Met Gly Ser Trp Ala Glu Phe Phe Ala Arg Leu Asp Ala Ile Trp Glu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Phe His Ala Ala Gly Ile Arg
50 55 60

Gln Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 793
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 793

Met Gly Ser Trp Ala Glu Phe Phe Ala Arg Leu Asp Ala Ile Trp Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Phe His Ala Ala Gly Ile Arg
50 55 60

Gln Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 794
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 794

Met Gly Ser Trp Ala Glu Phe Phe Ala Arg Leu Asp Ala Ile Trp Glu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Lys Phe His Ala Ala Gly Ile Arg
50 55 60

Gln Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 795
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 795

Met Gly Ser Trp Ala Glu Phe Phe Ala Arg Leu Asp Ala Ile Trp Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Lys Phe His Ala Ala Gly Ile Arg
50 55 60

Gln Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 796

<400> 796
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<210> 797

<400> 797
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<210> 798

<400> 798
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<210> 799

<400> 799
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<210> 800
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 800

Met Gly Ser Trp His Glu Phe Arg Trp Arg Leu Phe Ala Ile Trp Gln
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Leu Asp Ala Ala Leu Ile Arg
50 55 60

Val Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 801
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 801

Met Gly Ser Trp Ala Glu Phe Arg Trp Arg Leu His Ala Ile Trp Leu
1 5 10 15

Lys Leu Gly Glu Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Asp Ala Glu Gln Ile Lys
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 802
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 802

Met Gly Ser Trp Ala Glu Phe Arg Trp Ala Leu His Ala Ile Trp Leu
1 5 10 15

Lys Leu Gly Glu Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Asp Ala Glu Gln Ile Lys
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 803
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 803

Met Gly Ser Trp Ala Glu Phe Arg Trp Arg Leu His Ala Ile Trp Leu
1 5 10 15

Lys Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Asp Ala Ala Gln Ile Lys
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 804
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 804

Met Gly Ser Trp Ala Glu Phe Arg Trp Arg Leu His Ala Ile Trp Leu
1 5 10 15

Gln Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Asp Ala Ala Gln Ile Lys
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 805
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 805

Met Gly Ser Trp Ala Glu Phe Arg Trp Arg Leu His Ala Ile Trp Leu
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Thr Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Asp Ala Ala Gln Ile Lys
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 806
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 806

Met Gly Ser Trp Ala Glu Phe Arg Trp Arg Leu His Ala Ile Trp Leu
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Asp Ala Ala Gln Ile Lys
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 807
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 807

Met Gly Ser Trp Ala Glu Phe Arg Trp Lys Leu Glu Ala Ile Trp Leu
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Asp Ala Ala Gln Ile Lys
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 808
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 808

Met Gly Ser Trp Ala Glu Phe Arg Trp Lys Leu Gly Ala Ile Trp Leu
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Asp Ala Ala Gln Ile Lys
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 809
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 809

Met Gly Ser Trp Tyr Glu Phe Arg Trp Arg Leu His Ala Ile Trp Leu
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Gln Asp Ala Ala Gln Ile Arg
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 810
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 810

Met Gly Ser Trp His Glu Phe Leu Arg Arg Leu Leu Ala Ile Glu Met
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Val Arg Ala Ala Ser Ile Arg
50 55 60

Gln Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 811
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 811

Met Gly Ser Trp Trp Gly Phe Lys Val Asn Leu Ala Trp Ile Lys Trp
1 5 10 15

Lys Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Leu Trp Ile Ala Asn Phe Glu His Ser Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 812
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 812

Met Gly Ser Trp Val Asn Phe Lys Thr His Leu Ala Arg Ile Lys Val
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu

20 25 30

His Asp Ile Ala Asn Phe Glu Gln Val Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 813
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 813

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

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Gln Asp Ile Ala Trp Phe Glu Gln Trp Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 814
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 814

Met Gly Ser Trp Lys Thr Phe Lys Ile Glu Leu Ala Gly Ile Lys Leu
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu
20 25 30

Asn Ala Ile Ala Gln Phe Glu Ser Ser Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 815
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 815

Met Gly Ser Trp Trp Glu Phe Lys Val Arg Leu Ser Ala Ile Gln Tyr
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Glu Gln Ala Ala Leu Ile Arg
50 55 60

Thr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 816
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 816

Met Gly Ser Trp Trp Glu Phe His Ile Arg Leu His Ala Ile Asn Tyr
1 5 10 15

Arg Leu Ala Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Glu Leu Ala Ala Lys Ile Arg
50 55 60

Gly Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 817
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 817

Met Gly Ser Trp Trp Glu Phe Gln Val Arg Leu Arg Ala Ile Gln Tyr
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

520
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Gly Leu Ala Ala Gln Ile Arg
50 55 60

Phe Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 818
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 818

Met Gly Ser Trp Trp Glu Phe Lys Ile Arg Leu Tyr Ala Ile Glu Tyr
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Ala Lys Ala Ala Gln Ile Arg
50 55 60

Tyr Asn Leu Gln Ala Tyr Arg His Asn
65 70

<210> 819
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 819

Met Gly Ser Trp Phe Glu Phe Asn Ile Arg Leu His Ala Ile Glu Tyr
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Asn Tyr Ala Ala Ser Ile Arg
50 55 60

Lys Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 820
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 820

Met Gly Ser Trp Phe Glu Phe Glu Ile Arg Leu Arg Ala Ile Glu Tyr
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Leu Ala Ala Glu Ile Arg
50 55 60

Tyr Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 821
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 821

Met Gly Ser Trp Phe Glu Phe Lys Ile Arg Leu Tyr Ala Ile Gln Tyr
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Asn Leu Ala Ala Glu Ile Arg
50 55 60

His Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 822
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 822

Met Gly Ser Trp Trp Glu Phe Lys Val Arg Leu Arg Ala Ile Glu Tyr
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Val Leu Ala Ala Ser Ile Arg
50 55 60

Ile His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 823
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 823

Met Gly Ser Trp Ser Glu Phe Trp Phe Arg Leu His Ala Ile Leu Tyr
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Asp Ala Ala Ala Glu Ile Arg
50 55 60

Val Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 824
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 824

Met Gly Ser Trp Ile Glu Phe Trp Val Arg Leu Asn Ala Ile Leu Tyr
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Asp Ser Ala Ala Glu Ile Arg
50 55 60

Arg Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 825
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 825

Met Gly Ser Trp Val Glu Phe Trp Ile Arg Leu Asn Ala Ile Lys Tyr
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Gln Asp Ala Ala Asp Ile Arg
50 55 60

Glu Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 826
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 826

Met Gly Ser Trp Thr Glu Phe Trp Trp Arg Leu Ser Ala Ile Val Tyr
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Asp Met Ala Ala Asp Ile Arg
50 55 60

Ser Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 827
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 827

Met Gly Ser Trp Trp Glu Phe Tyr Leu Arg Leu Arg Ala Ile Ser Tyr
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Gly Leu Arg Gln Asp Ala Ala Glu Ile Arg
50 55 60

Lys Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 828
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 828

Met Gly Ser Trp Trp Glu Phe His Val Arg Leu Arg Ala Ile Glu Tyr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Gln Leu Arg Leu Ile Ala Ala Asn Ile Arg
50 55 60

His Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 829
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 829

Met Gly Ser Trp Trp Glu Phe His Val Arg Leu Lys Ala Ile Glu Tyr
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Tyr Ile Ala Ala Asn Ile Arg
50 55 60

Gln Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 830
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 830

Met Gly Ser Trp Trp Glu Phe Lys Val Arg Leu Lys Ala Ile Glu Tyr
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Tyr Ile Ala Ala Asn Ile Arg
50 55 60

Gln Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 831
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 831

Met Gly Ser Trp Trp Glu Phe Gln Val Arg Leu Ala Ala Ile Glu Tyr
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Gln Leu Ala Ala His Ile Arg
50 55 60

Ser Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 832
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 832

Met Gly Ser Trp Trp Glu Phe Gln Val Arg Leu Ser Ala Ile Glu Tyr
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Gln Lys Ala Ala Arg Ile Arg
50 55 60

Ser Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 833
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 833

Met Gly Ser Trp Trp Glu Phe Asn Ile Arg Leu His Ala Ile Asp Tyr
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Glu Lys Ala Ala Gln Ile Arg
50 55 60

Ala Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 834
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 834

Met Gly Ser Trp Trp Glu Phe Arg Val Arg Leu Glu Ala Ile Asp Tyr
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Met Lys Ala Ala Thr Ile Arg
50 55 60

Ala Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 835
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 835

Met Gly Ser Trp Tyr Glu Phe Asp Ile Arg Leu Glu Ala Ile Lys Tyr
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Lys Lys Ala Ala Val Ile Arg
50 55 60

Ser Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 836
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 836

Met Gly Ser Trp Trp Glu Phe Arg Ile Arg Leu Glu Ala Ile Trp Tyr
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Ile Phe Ala Ala Asn Ile Arg
50 55 60

Ser Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 837
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 837

Met Gly Ser Trp Trp Glu Phe Asn Val Arg Leu Gln Ala Ile Lys Tyr
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Lys Thr Ala Ala His Ile Arg
50 55 60

Trp Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 838
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 838

Met Gly Ser Trp Trp Glu Phe Asn Val Arg Leu Ser Ala Ile Arg Tyr
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Ala Ser Ala Ala Gln Ile Arg
50 55 60

Ala Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 839
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 839

Met Gly Ser Trp Trp Glu Phe Asn Met Arg Leu Ser Ala Ile Lys Tyr
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Arg Leu Ala Ala Asp Ile Arg
50 55 60

Glu Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 840
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 840

Met Gly Ser Trp Trp Glu Phe His Ile Arg Leu Arg Ala Ile Lys Tyr
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Ile Leu Ala Ala Glu Ile Arg
50 55 60

Ala Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 841
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 841

Met Gly Ser Trp Val Glu Phe Tyr Glu Arg Leu Asp Ala Ile Asp Arg
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Val His Ala Ala Ser Ile Arg
50 55 60

Ala Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 842
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 842

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

535

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Ala His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 843
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 843

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 844
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 844

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Ala His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 845
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 845

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Lys Ala His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 846
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 846

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Gln Ala His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 847
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 847

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Ala His Ala Ala Gly Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 848
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 848

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala Ala His Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 849
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  849

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala Ala Ala Ile Arg
    50                  55                  60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  850
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  850

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala Ala Ala Ile Arg
    50                  55                  60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 851
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 851

Met Gly Ser Trp His Glu Phe Tyr Asp Arg Leu Asp Ala Ile Tyr Phe
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Leu Leu Ala Ala Glu Ile Arg
50 55 60

Lys Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 852
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 852

Met Gly Ser Trp His Glu Phe Ile Thr Arg Leu Glu Ala Ile Asp Gln
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Phe Trp Ala Ala Glu Ile Arg
50 55 60

Phe Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 853
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 853

Met Gly Ser Trp Met Glu Phe Phe Asp Arg Leu Val Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Met Trp Ala Ala Glu Ile Arg
50 55 60

Phe Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 854
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 854

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

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Met Trp Ala Ala Glu Ile Arg
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 855
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 855

Met Gly Ser Trp Val Glu Phe His His Arg Leu Phe Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Met Val Ala Ala Glu Ile Arg
50 55 60

Tyr Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 856
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 856

Met Gly Ser Trp His Glu Phe Met Glu Arg Leu Ile Ala Ile Asp Gly
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Phe Val Ala Ala Phe Ile Arg
50 55 60

Asp Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 857
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 857

Met Gly Ser Trp Lys Glu Phe Ile Gln Arg Leu Asp Ala Ile His Tyr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Phe Val Ala Ala Phe Ile Arg
50 55 60

Phe Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 858
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 858

Met Gly Ser Trp Ser Glu Phe Ile Phe Arg Leu Asp Ala Ile His Ser
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Phe Ile Ala Ala Glu Ile Arg
50 55 60

Leu Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 859
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 859

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 860
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 860

Met Gly Ser Trp Leu Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 861
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 861

Met Gly Ser Trp Phe Glu Phe Tyr His Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 862
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 862

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 863
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 863

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 864
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  864

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Asn Leu Arg Asp His Ala Ala Ala Ile Arg
    50                  55                  60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  865
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  865

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Asn Leu Arg Glu His Ala Ala Ala Ile Arg
    50                  55                  60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 866
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 866

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Val His Ala Ala His Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 867
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 867

Met Gly Ser Trp Leu Glu Phe Tyr His Arg Leu Asn Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

550
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 868
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 868

Met Gly Ser Trp Leu Glu Phe Tyr His Arg Leu Asn Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Asp His Ala Ala His Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 869
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  869

Met Gly Ser Trp Phe Glu Phe Tyr His Arg Leu Asn Ala Ile Asp Ser
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ser Leu Arg Asp His Ala Ala His Ile Arg
    50                  55                  60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  870
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  870

Met Gly Ser Trp Leu Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ser
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ser Leu Arg Asp His Ala Ala His Ile Arg
    50                  55                  60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 871
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 871

Met Gly Ser Trp Leu Glu Phe Tyr His Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Asp His Ala Ala His Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 872
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 872

Met Gly Ser Trp Leu Glu Phe Tyr His Arg Leu Asn Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Asp His Ala Ala His Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 873
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 873

Met Gly Ser Trp Leu Glu Phe Tyr His Arg Leu Asn Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Val His Ala Ala His Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 874
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 874

Met Gly Ser Trp Leu Glu Phe Tyr His Arg Leu Asn Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Asp His Ala Ala Ala Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 875
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 875

Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn Ala Ile Asp Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Asp His Ala Ala His Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 876
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 876

Met Gly Ser Trp Phe Glu Phe Tyr Glu Arg Leu Asn Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Ala His Ala Ala Ser Ile Arg
50 55 60

Thr Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 877
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 877

Met Gly Ser Trp Ile Glu Phe Tyr Trp Arg Leu Glu Ala Ile Asp Gln
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Trp Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 878
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 878

Met Gly Ser Trp Ser Glu Phe Val Lys Arg Leu Asp Ala Ile Asp Gln
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Ala Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 879
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  879

Met Gly Ser Trp Glu Glu Phe Tyr Tyr Arg Leu Glu Ala Ile Asp Ala
1               5                   10                  15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Glu Leu Arg Val His Ala Ala His Ile Arg
    50                  55                  60

Asp Trp Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  880
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  880

Met Gly Ser Trp Val Glu Phe His Tyr Arg Leu Gln Ala Ile Asp Ala
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Glu Leu Arg Val His Ala Ala His Ile Arg
    50                  55                  60

Lys Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 881
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 881

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

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg His His Ala Ala Glu Ile Arg
50 55 60

Asn Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 882
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 882

Met Gly Ser Trp Asn Glu Phe Met Asp Arg Leu Asn Ala Ile Asp Asn
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Lys Gln Ala Ala Ser Ile Arg
50 55 60

Leu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 883
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 883

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

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Gln His Ala Ala Asn Ile Arg
50 55 60

Trp Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 884
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 884

Met Gly Ser Trp Tyr Glu Phe Val Val Arg Leu Phe Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala Ala His Ile Arg
50 55 60

Ser Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 885
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 885

Met Gly Ser Trp Tyr Glu Phe Tyr Leu Arg Leu Asp Ala Ile Asp His
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Glu His Ala Ala His Ile Arg
50 55 60

Lys Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 886
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 886

Met Gly Ser Trp Tyr Glu Phe Arg Ala Arg Leu Leu Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Glu His Ala Ala His Ile Arg
50 55 60

Asn Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 887
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 887

Met Gly Ser Trp Thr Glu Phe Trp His Arg Leu Glu Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala Ala His Ile Arg
50 55 60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 888
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 888

Met Gly Ser Trp Thr Glu Phe Gln Asn Arg Leu Asn Ala Ile Asp His
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala Ala Lys Ile Arg
50 55 60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 889
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 889

Met Gly Ser Trp Ser Glu Phe Phe Lys Arg Leu Glu Ala Ile Asp Arg
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Glu His Ala Ala His Ile Arg
50 55 60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 890
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 890

Met Gly Ser Trp Tyr Glu Phe Gln Gln Arg Leu Glu Ala Ile Asp Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Glu His Ala Ala His Ile Arg
50 55 60

His Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 891
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 891

Met Gly Ser Trp Thr Glu Phe Glu Lys Arg Leu His Ala Ile Asp Tyr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Glu His Ala Ala Ala Ile Arg
50 55 60

His Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 892
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 892

Met Gly Ser Trp Thr Glu Phe His Gln Arg Leu Asp Ala Ile Asp Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu His Ala Ala Lys Ile Arg
50 55 60

Met Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 893
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 893

Met Gly Ser Trp Leu Glu Phe Ser Gln Arg Leu Thr Ala Ile Asp Ser
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Glu His Ala Ala Lys Ile Arg
50 55 60

Asn Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 894
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  894

Met Gly Ser Trp Thr Glu Phe Val Asn Arg Leu Tyr Ala Ile Asp Ser
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Gly Leu Arg Thr His Ala Ala Lys Ile Arg
    50                  55                  60

His Trp Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  895
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  895

Met Gly Ser Trp Met Glu Phe Val Asp Arg Leu Ser Ala Ile Asp Arg
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Val Leu Arg Glu His Ala Ala Asn Ile Arg
    50                  55                  60

Gln Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 896
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 896

Met Gly Ser Trp Val Glu Phe Val Ser Arg Leu Tyr Ala Ile Asp Phe
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Glu His Ala Ala Gln Ile Arg
50 55 60

Asp Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 897
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 897

Met Gly Ser Trp Ser Glu Phe His Thr Arg Leu Asp Ala Ile Asp Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Arg His Ala Ala Ala Ile Arg
50 55 60

Phe Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 898
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 898

Met Gly Ser Trp Leu Glu Phe His Ser Arg Leu Asp Ala Ile Asp Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Glu His Ala Ala Ala Ile Arg
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 899
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 899

Met Gly Ser Trp Thr Glu Phe Tyr Gln Arg Leu Asp Ala Ile Asp Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Gly Leu Arg Gln Gln Ala Ala Gln Ile Arg
50 55 60

Ala Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 900
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 900

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

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Glu His Ala Ala Glu Ile Arg
50 55 60

Lys Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 901
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 901

Met Gly Ser Trp Met Glu Phe Asn His Arg Leu Gln Ala Ile Asp Gly
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Met Leu Arg Glu His Ala Ala Ala Ile Arg
50 55 60

Ala Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 902
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 902

Met Gly Ser Trp Tyr Glu Phe Tyr Lys Arg Leu Glu Ala Ile Asp Asn
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu His Ala Ala Ala Ile Arg
50 55 60

His Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 903
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 903

Met Gly Ser Trp Tyr Glu Phe Tyr Tyr Arg Leu Glu Ala Ile Asp Asn
1 5 10 15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Glu His Ala Ala Lys Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 904
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  904

Met Gly Ser Trp Tyr Glu Phe Val Ser Arg Leu Glu Ala Ile Asp Asp
1               5                   10                  15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Met Leu Arg Gln His Ala Ala Ala Ile Arg
    50                  55                  60

His Trp Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  905
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  905

Met Gly Ser Trp Tyr Glu Phe Ser His Arg Leu Glu Ala Ile Glu Asp
1               5                   10                  15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Pro Leu Arg Glu His Ala Ala Tyr Ile Arg
    50                  55                  60

His Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 906
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 906

Met Gly Ser Trp Phe Glu Phe Phe Glu Arg Leu Ala Ala Ile Glu Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Val His Ala Ala Ala Ile Arg
50 55 60

Ala Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 907
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 907

Met Gly Ser Trp Ile Glu Phe Lys Tyr Arg Leu Asp Ala Ile Glu Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Ile His Ala Ala Ala Ile Arg
50 55 60

Thr Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 908
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 908

Met Gly Ser Trp Tyr Glu Phe Met Tyr Arg Leu Asp Ala Ile Glu Tyr
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Ile His Ala Ala Met Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 909
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  909

Met Gly Ser Trp Val Glu Phe Val Thr Arg Leu Glu Ala Ile Glu Asp
1               5                   10                  15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu His Leu Arg Ala His Ala Ala His Ile Arg
    50                  55                  60

His Trp Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  910
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  910

Met Gly Ser Trp Tyr Glu Phe Val Ile Arg Leu Asp Ala Ile Glu Asp
1               5                   10                  15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu His Leu Arg Val His Ala Ala His Ile Arg
    50                  55                  60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 911
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 911

Met Gly Ser Trp Val Glu Phe Val Glu Arg Leu Asp Ala Ile Glu Phe
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Asn His Ala Ala His Ile Arg
50 55 60

Ser Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 912
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 912

Met Gly Ser Trp Ser Glu Phe Val His Arg Leu Asp Ala Ile Glu Val
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Tyr His Ala Ala Lys Ile Arg
50 55 60

Ser Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 913
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 913

Met Gly Ser Trp Ser Glu Phe Tyr Tyr Arg Leu Ala Ala Ile Glu Ser
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Arg Leu Arg Glu His Ala Ala His Ile Arg
50 55 60

Arg Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 914
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 914

Met Gly Ser Trp Tyr Glu Phe Tyr Leu Arg Leu Ser Ala Ile Glu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Val Gln Ala Ala His Ile Arg
50 55 60

Thr Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 915
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 915

Met Gly Ser Trp Tyr Glu Phe Tyr Asp Arg Leu Asp Ala Ile Glu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Asp Gln Ala Ala Tyr Ile Arg
50 55 60

Thr Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 916
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 916

Met Gly Ser Trp His Glu Phe Trp Val Arg Leu Glu Ala Ile Glu Ser
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Val Gln Ala Ala His Ile Arg
50 55 60

Ser Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 917
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 917

Met Gly Ser Trp Val Glu Phe Tyr His Arg Leu Glu Ala Ile Glu Gln
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

580

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu Gln Ala Ala Ala Ile Arg
50 55 60

Ser Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 918
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 918

Met Gly Ser Trp Val Glu Phe Tyr Glu Arg Leu Asn Ala Ile Glu Tyr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala Ala Tyr Ile Arg
50 55 60

Gln Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 919
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  919

Met Gly Ser Trp Val Glu Phe Tyr His Arg Leu Asp Ala Ile Phe Asp
1               5                   10                  15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Glu Leu Arg Ala Asn Ala Ala Gly Ile Arg
    50                  55                  60

Ser Trp Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  920
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  920

Met Gly Ser Trp Ser Glu Phe Thr Asp Arg Leu Phe Ala Ile Glu Asp
1               5                   10                  15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Asp Leu Arg Met His Ala Ala Ser Ile Arg
    50                  55                  60

Leu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 921
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 921

Met Gly Ser Trp His Glu Phe Tyr Asp Arg Leu Tyr Ala Ile Trp Asp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Gly Leu Arg Asn Ala Ala Ala Val Ile Arg
50 55 60

Ile Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 922
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 922

Met Gly Ser Trp Phe Glu Phe Ser Asn Arg Leu Tyr Ala Ile Trp His
1 5 10 15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Thr Gln Ala Ala Phe Ile Arg
50 55 60

Ile Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 923
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 923

Met Gly Ser Trp Phe Glu Phe Ser Asp Arg Leu Tyr Ala Ile Trp Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Phe Gln Ala Ala Phe Ile Arg
50 55 60

Tyr Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 924
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 924

Met Gly Ser Trp Phe Glu Phe Glu Asp Arg Leu Phe Ala Ile Trp Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Gln Ser Ala Ala Ser Ile Arg
50 55 60

Trp Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 925
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 925

Met Gly Ser Trp His Glu Phe Ser Glu Arg Leu Phe Ala Ile Trp Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Gln Ser Ala Ala Phe Ile Arg
50 55 60

Val Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 926
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 926

Met Gly Ser Trp Gly Glu Phe Thr Val Arg Leu Tyr Ala Ile Asp Arg
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Arg Phe Ala Ala Ile Ile Arg
50 55 60

Ala Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 927
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 927

Met Gly Ser Trp Tyr Glu Phe Asp His Arg Leu Met Ala Ile Ser Phe
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Arg Arg Ala Ala Asn Ile Arg
50 55 60

His Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 928
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 928

Met Gly Ser Trp Ser Ile Phe Lys Tyr His Leu Ala Asp Ile Lys Leu
1 5 10 15

Leu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Phe Leu Ile Ala Asp Phe Glu Phe Thr Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 929
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 929

Met Gly Ser Trp His His Phe Lys Tyr Phe Leu Ala Asp Ile Lys Ser
1 5 10 15

Ile Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu
20 25 30

Val Gln Ile Ala Tyr Phe Glu Asp Leu Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 930
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 930

Met Gly Ser Trp Leu Tyr Phe Lys Tyr Asn Leu Ala Val Ile Lys His
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu
20 25 30

Met Ser Ile Ala Asp Phe Glu Tyr Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 931
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 931

Met Gly Ser Trp Phe Tyr Phe Lys Tyr Glu Leu Ala Trp Ile Lys His
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Thr His Ile Ala Phe Phe Glu His Gln Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 932
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 932

Met Gly Ser Trp Ala Asp Phe Lys Trp Thr Leu Ala Tyr Ile Lys His
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu

20 25 30

Met Glu Ile Ala Tyr Phe Glu Gln Ser Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 933
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 933

Met Gly Ser Trp Ala Tyr Phe Lys Gly Gln Leu Ala Tyr Ile Lys Ser
1 5 10 15

Gly Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Leu Arg Ile Ala Tyr Phe Glu His Trp Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 934
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 934

Met Gly Ser Trp Glu Asn Phe Lys Asp Thr Leu Ala Trp Ile Lys Glu
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu
20 25 30

His Arg Ile Ala Ile Phe Glu His Tyr Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 935
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 935

Met Gly Ser Trp Val Leu Phe Lys Asp Tyr Leu Ala Asp Ile Lys His
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu
20 25 30

His Leu Ile Ala Asn Phe Glu Gly Asp Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 936
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 936

Met Gly Ser Trp Ser Leu Phe Lys His Arg Leu Ala Asn Ile Lys Val
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Thr Phe Ile Ala Tyr Phe Glu Lys Asp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 937
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 937

Met Gly Ser Trp Glu His Phe Lys Val Glu Leu Ala Gly Ile Lys Ala
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu

20 25 30

Trp Ala Ile Ala Asp Phe Glu Ser Ile Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 938
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 938

Met Gly Ser Trp Ile Tyr Phe Lys Asp Glu Leu Ala Gly Ile Lys Lys
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Val Ala Ile Ala Asp Phe Glu Ala Ile Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 939
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 939

Met Gly Ser Trp Val Leu Phe Lys Gln Glu Leu Ala Trp Ile Lys Trp
1 5 10 15

Leu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Glu Gln Ile Ala Arg Phe Glu His Asp Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 940
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 940

Met Gly Ser Trp Val Leu Phe Lys Gln Glu Leu Ala Trp Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Trp Glu Ile Ala Ala Phe Glu Gln Arg Leu Gln Ile Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 941
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 941

Met Gly Ser Trp Phe Leu Phe Lys Ser Glu Leu Ala Trp Ile Lys Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Tyr Gln Ile Ala Glu Phe Glu Phe Trp Leu Gln Ser Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 942
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 942

Met Gly Ser Trp Leu Leu Phe Lys Ser Glu Leu Ala Trp Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

20 25 30

Trp Asn Ile Ala Glu Phe Glu Lys Asn Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 943
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 943

Met Gly Ser Trp Leu Leu Phe Lys Ser Asp Leu Ala Trp Ile Lys Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Glu Ser Ile Ala Met Phe Glu His Trp Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 944
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 944

Met Gly Ser Trp Leu Tyr Phe Lys Ser Asp Leu Ala Trp Ile Lys Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Glu Ala Ile Ala Glu Phe Glu Gln Ala Leu Gln Ile Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 945
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 945

Met Gly Ser Trp Lys Leu Phe Lys Tyr Glu Leu Ala Trp Ile Lys Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Ala Ser Ile Ala Gln Phe Glu Lys Tyr Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 946
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 946

Met Gly Ser Trp Tyr Leu Phe Lys Asn Glu Leu Ala Trp Ile Lys Trp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Met Val Ile Ala Met Phe Glu Asp His Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 947
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 947

Met Gly Ser Trp Val Tyr Phe Lys Ala His Leu Ala Phe Ile Lys Trp
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu

20 25 30

Ser Thr Ile Ala Glu Phe Glu Lys Tyr Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 948
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 948

Met Gly Ser Trp Met Tyr Phe Lys Ser His Leu Ala Trp Ile Lys Trp
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Asp Asn Ile Ala Gln Phe Glu Tyr Trp Leu Gln Leu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 949
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 949

Met Gly Ser Trp Thr Leu Phe Lys Trp Asp Leu Ala Phe Ile Lys Trp
1 5 10 15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Tyr Glu Ile Ala Ala Phe Glu Asp Ser Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 950
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 950

Met Gly Ser Trp Ile Leu Phe Lys Glu Asp Leu Ala Phe Ile Lys Trp
1 5 10 15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Thr Thr Ile Ala Asn Phe Glu Ser Asp Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 951
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 951

Met Gly Ser Trp Tyr Phe Phe Lys Ser Arg Leu Ala Tyr Ile Lys Val
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu
20 25 30

Trp Glu Ile Ala His Phe Glu Glu Trp Leu Gln Arg Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 952
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 952

Met Gly Ser Trp Tyr Ile Phe Lys Ser Glu Leu Ala Trp Ile Lys Trp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu

20 25 30

Val Glu Ile Ala Thr Phe Glu Thr Trp Leu Gln Gly Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 953
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 953

Met Gly Ser Trp Tyr Ile Phe Lys Gln Glu Leu Ala Ser Ile Lys Leu
1 5 10 15

Ser Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

Ala Glu Ile Ala Trp Phe Glu Trp Trp Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 954
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 954

Met Gly Ser Trp Val Arg Phe Lys Thr Glu Leu Ala Tyr Ile Lys Glu
1 5 10 15

Ser Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Ser Glu Ile Ala Ile Phe Glu His Ser Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 955
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 955

Met Gly Ser Trp Tyr Leu Phe Lys Thr Glu Leu Ala Ala Ile Lys Tyr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ser Phe Glu
20 25 30

Tyr Glu Ile Ala Trp Phe Glu His Ile Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 956
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 956

Met Gly Ser Trp Tyr Trp Phe Lys Tyr Glu Leu Ala Glu Ile Lys Trp
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

His Ser Ile Ala Val Phe Glu Ser Gln Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 957
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 957

Met Gly Ser Trp Trp Val Phe Lys Lys Thr Leu Ala Glu Ile Lys Trp
1 5 10 15

Thr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu

20 25 30

Ala Glu Ile Ala Phe Phe Glu Phe Ile Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 958
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 958

Met Gly Ser Trp Val Tyr Phe Lys Asp His Leu Ala Glu Ile Lys Ser
1 5 10 15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
20 25 30

Tyr Asp Ile Ala Trp Phe Glu Phe Ile Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 959
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 959

Met Gly Ser Trp Val Tyr Phe Lys His Arg Leu Ala Glu Ile Lys Asp
1 5 10 15

Gln Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

Thr Asp Ile Ala Trp Phe Glu Trp Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 960
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 960

Met Gly Ser Trp Ile Ile Phe Lys Thr Asp Leu Ala Arg Ile Lys Asn
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Thr Phe Glu
20 25 30

Arg Asp Ile Ala Trp Phe Glu Phe Met Leu Gln Ile Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 961
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 961

Met Gly Ser Trp Met His Phe Lys Gln Asp Leu Ala Glu Ile Lys Gly
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu
20 25 30

Met Asp Ile Ala Trp Phe Glu Tyr Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 962
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 962

Met Gly Ser Trp Gln Ile Phe Lys Gln Asp Leu Ala Ala Ile Lys Asp
1 5 10 15

Tyr Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu

20 25 30

Phe Asp Ile Ala Trp Phe Glu His Met Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 963
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 963

Met Gly Ser Trp Leu Ala Phe Lys Glu Asp Leu Ala His Ile Lys Ser
1 5 10 15

Ile Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu
20 25 30

His Asp Ile Ala Trp Phe Glu Tyr Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 964
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 964

Met Gly Ser Trp Phe Val Phe Lys Glu Asp Leu Ala Gly Ile Lys Phe
1 5 10 15

Ile Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Thr Asp Ile Ala Trp Phe Glu Tyr Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 965
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 965

Met Gly Ser Trp Thr His Phe Lys Glu Asp Leu Ala His Ile Lys Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Leu Asp Ile Ala Trp Phe Glu Phe Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 966
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 966

Met Gly Ser Trp Tyr Tyr Phe Lys Glu Arg Leu Ala Ala Ile Lys Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu
20 25 30

Ala Asp Ile Ala Trp Phe Glu Phe Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 967
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 967

Met Gly Ser Trp Tyr Thr Phe Lys Gly Ser Leu Ala Glu Ile Lys Asn
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu

610

20 25 30

Ser Asp Ile Ala Trp Phe Glu Phe Met Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 968
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 968

Met Gly Ser Trp Phe Thr Phe Lys Asp Asp Leu Ala Gln Ile Lys Asn
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu
20 25 30

Met Ser Ile Ala Trp Phe Glu Phe Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 969
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 969

Met Gly Ser Trp Val Leu Phe Lys Gln Asp Leu Ala Met Ile Lys Gln
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Tyr Asp Ile Ala Trp Phe Glu His Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 970
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 970

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

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Met Gln Ile Ala Trp Phe Glu His Thr Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 971
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 971

Met Gly Ser Trp Ser Tyr Phe Lys Glu Asp Leu Ala Asn Ile Lys Ser
1 5 10 15

Ser Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Ser Ser Ile Ala Trp Phe Glu His Thr Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 972
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 972

Met Gly Ser Trp Ser Ile Phe Lys Gln Asp Leu Ala Asp Ile Lys Asp
1 5 10 15

Ser Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu

20 25 30

Met Asp Ile Ala Trp Phe Glu His Thr Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 973
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 973

Met Gly Ser Trp Glu Ile Phe Lys Asp Asp Leu Ala Ser Ile Lys Lys
1 5 10 15

Val Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
20 25 30

Ser Asp Ile Ala Trp Phe Glu Leu Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 974
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 974

Met Gly Ser Trp Ser Ile Phe Lys Asp Asp Leu Ala Val Ile Lys Glu
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

Gln Asp Ile Ala Trp Phe Glu His Leu Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 975
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 975

Met Gly Ser Trp Ser Val Phe Lys Asp Asp Leu Ala Gln Ile Lys Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Leu Asp Ile Ala Trp Phe Glu Tyr Val Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 976
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 976

Met Gly Ser Trp Ala Val Phe Lys Asp Ser Leu Ala His Ile Lys Asp
1 5 10 15

Val Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu
20 25 30

Met Asp Ile Ala Trp Phe Glu Tyr Val Leu Gln Asp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 977
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 977

Met Gly Ser Trp Ile Ala Phe Lys Asp His Leu Ala Ile Ile Lys Gln
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Arg Phe Glu

20 25 30

Phe Glu Ile Ala Trp Phe Glu Trp Met Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 978
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 978

Met Gly Ser Trp Ile His Phe Lys Asn Asp Leu Ala Val Ile Lys Asp
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Arg Phe Glu
20 25 30

Ile Met Ile Ala Trp Phe Glu Asp Ala Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 979
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 979

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

Asn Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asp Phe Glu
20 25 30

Phe Ala Ile Ala Trp Phe Glu Tyr Glu Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 980
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 980

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

Lys Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Ala Asp Ile Ala Phe Phe Glu Trp Ser Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 981
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 981

Met Gly Ser Trp His Ser Phe Lys Gln Asp Leu Ala Tyr Ile Lys Tyr
1 5 10 15

Leu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gln Phe Glu
20 25 30

Glu Leu Ile Ala Phe Phe Glu Tyr Tyr Leu Gln Thr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 982
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 982

Met Gly Ser Trp Val Val Phe Lys Ser Ser Leu Ala Gln Ile Lys Ile
1 5 10 15

Leu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu

20 25 30

Val Lys Ile Ala His Phe Glu Gln Glu Leu Gln Glu Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 983
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 983

Met Gly Ser Trp Asp Gln Phe Lys Asn Ser Leu Ala Ser Ile Lys Arg
1 5 10 15

Val Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ile Phe Glu
20 25 30

Val Lys Ile Ala His Phe Glu His Phe Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 984
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 984

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

Val Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Val Phe Glu
20 25 30

Leu Gln Ile Ala His Phe Glu Arg Glu Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 985
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 985

Met Gly Ser Trp Val Glu Phe Gly His Arg Leu Trp Ala Ile Asp Gln
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Gln Arg Ala Ala Phe Ile Arg
50 55 60

Phe Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 986
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 986

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

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu His Leu Arg Asp Gln Ala Ala Phe Ile Arg
50 55 60

His Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 987
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 987

Met Gly Ser Trp Tyr Glu Phe Arg His Arg Leu Trp Ala Ile Asp Gln
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Gly Leu Arg Glu Ala Ala Ala Phe Ile Arg
50 55 60

Ala Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 988
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 988

Met Gly Ser Trp Tyr Glu Phe Ser Met Arg Leu Trp Ala Ile Asp Gln
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Ala Lys Ala Ala Tyr Ile Arg
50 55 60

Trp Lys Leu Gln Ala Tyr Arg His Asn
65 70

<210> 989
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 989

Met Gly Ser Trp Tyr Glu Phe Gly His Arg Leu Trp Ala Ile Asp Gln
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu Thr Ala Ala His Ile Arg
50 55 60

Thr Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 990
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 990

Met Gly Ser Trp Tyr Glu Phe His Tyr Arg Leu His Ala Ile Asp Gln
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Ile Lys Ala Ala Phe Ile Arg
50 55 60

Asp Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 991
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 991

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Leu
20 25 30

Gly Glu Ile Trp Ala Phe Glu Met Glu Leu Ala Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Gly Arg Glu Ala Ala Ala Ile Arg
50 55 60

Met Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 992
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 992

Met Gly Ser Trp Tyr Glu Phe Asp Leu Arg Leu His Ala Ile Tyr Asp
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

625

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Asp Asn Ala Ala Tyr Ile Arg
50 55 60

Gln Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 993
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 993

Met Gly Ser Trp Thr Glu Phe Thr Tyr Arg Leu Ser Ala Ile Glu Trp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Gln Lys Ile Ala Phe Phe Glu Asp Phe Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Lys His Glu Ala Gly Ala Ile Leu
50 55 60

Asn Glu Leu Met Ala Tyr Arg His Asn
65 70

<210> 994
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 994

Met Gly Ser Trp Ala Glu Phe Asp His Arg Leu His Ala Ile Arg Glu
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Gly Asn Ala Ala Tyr Ile Arg
50 55 60

Ala Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 995
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 995

Met Gly Ser Trp Thr Glu Phe Val Gly Arg Leu Ala Ala Ile Glu Phe
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Trp Phe Glu
20 25 30

Ala His Ile Ala Phe Phe Glu Asp Tyr Leu Gln Trp Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Glu Glu Ala Gly Ala Ile Met
50 55 60

Glu Glu Leu Lys Ala Tyr Arg His Asn
65 70

<210> 996
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 996

Met Gly Ser Trp Thr Glu Phe Tyr Ser Arg Leu Glu Ala Ile Trp Val
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Met Phe Glu
20 25 30

Asp Arg Ile Ala His Phe Glu Trp Phe Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu His Glu Glu Ala Ile Ala Ile Arg
50 55 60

Lys Glu Leu Ala Ala Tyr Arg His Asn
65 70

<210> 997
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 997

Met Gly Ser Trp His Glu Phe His Asp Arg Leu Gln Ala Ile His Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Ile Ala Ala Ala His Ile Arg
50 55 60

Gln Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 998
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 998

Met Gly Ser Trp Asn Tyr Phe Lys Asp His Leu Ala Trp Ile Lys Asn
1 5 10 15

Ser Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

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

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 999
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  999

Met Gly Ser Trp Leu Tyr Phe Lys Glu His Leu Ala His Ile Lys Ala
1               5                   10                  15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
            20                  25                  30

Leu Ala Ile Ala Asp Phe Glu Tyr His Leu Gln Glu Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  1000
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1000

Met Gly Ser Trp Val Tyr Phe Lys Glu His Leu Ala Trp Ile Lys Thr
1               5                   10                  15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
            20                  25                  30

His Ser Ile Ala Asp Phe Glu Met Ser Leu Gln Phe Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1001
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1001

Met Gly Ser Trp Phe Tyr Phe Lys Gln His Leu Ala Trp Ile Lys Ser
1 5 10 15

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

Arg Ala Ile Ala Ala Phe Glu Gln His Leu Gln Met Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1002
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1002

Met Gly Ser Trp His Tyr Phe Lys Asp His Leu Ala Glu Ile Lys Gly
1 5 10 15

Leu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu

20 25 30

Met Ala Ile Ala Asp Phe Glu His Asn Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1003
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1003

Met Gly Ser Trp His Tyr Phe Lys Gly His Leu Ala Glu Ile Lys Asn
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

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

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1004
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  1004

Met Gly Ser Trp Ile Tyr Phe Lys Glu His Leu Ala Tyr Ile Lys Lys
1               5                   10                  15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
            20                  25                  30

Ser Ala Ile Ala Val Phe Glu Ser Thr Leu Gln Tyr Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  1005
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1005

Met Gly Ser Trp Thr Tyr Phe Lys Glu His Leu Ala Glu Ile Lys Tyr
1               5                   10                  15

Met Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
            20                  25                  30

Val Ala Ile Ala Asp Phe Glu Lys Met Leu Gln Tyr Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1006
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1006

Met Gly Ser Trp Trp Leu Phe Lys Asp His Leu Ala Glu Ile Lys Thr
1 5 10 15

Ala Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

Met Ala Ile Ala Ala Phe Glu Lys Gln Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1007
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1007

Met Gly Ser Trp Ser Glu Phe Tyr Asn Arg Leu Asp Ala Ile Glu Ser
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Leu Phe Glu

20 25 30

Ile Gln Ile Ala Arg Phe Glu Lys Val Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Gly Glu Ala Arg Ala Ile Phe
50 55 60

Ala Glu Leu Tyr Ala Tyr Arg His Asn
65 70

<210> 1008
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1008

Met Gly Ser Trp Tyr Glu Phe Tyr Asn Arg Leu Tyr Ala Ile Glu Ile
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Arg Leu Arg Val Arg Ala Ala Lys Ile Arg
50 55 60

Val Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1009
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1009

Met Gly Ser Trp Leu Trp Phe Lys Ile Phe Leu Ala Glu Ile Lys Tyr
1 5 10 15

Phe Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Asp
20 25 30

Phe Glu Ile His Ala Phe His Val Glu Leu Phe Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Glu Val Ala Ala Glu Ile Arg
50 55 60

Trp Asp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1010
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1010

Met Gly Ser Trp Thr Glu Phe Gln Ser Arg Leu Asp Ala Ile His Ser
1 5 10 15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Asp Asp Ala Ala Phe Ile Arg
50 55 60

His Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1011
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1011

Met Gly Ser Trp Gln Glu Phe Asp Asp Arg Leu Asn Ala Ile Lys Ala
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Asp Asp Ala Ala Phe Ile Arg
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1012
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1012

Met Gly Ser Trp Tyr Glu Phe Gln Asn Arg Leu His Ala Ile His Glu
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Leu Leu Arg Asp Asp Ala Ala Phe Ile Arg
50 55 60

His Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1013
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1013

Met Gly Ser Trp Phe Glu Phe Gln Asp Arg Leu Thr Ala Ile Asn Glu
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Ser Asp Ala Ala Phe Ile Arg
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1014
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1014

Met Gly Ser Trp Tyr Glu Phe Glu Ser Arg Leu Asp Ala Ile His Glu
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Gly Asp Ala Ala Phe Ile Arg
50 55 60

His Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1015
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1015

Met Gly Ser Trp Tyr Glu Phe Asn His Arg Leu Asp Ala Ile Ser Lys
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Gly Asp Ala Ala Phe Ile Arg
50 55 60

His Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1016
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1016

Met Gly Ser Trp Phe Glu Phe Glu Asn Arg Leu His Ala Ile Val His
1 5 10 15

Arg Leu Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Thr Leu Arg Ala Asp Ala Ala Phe Ile Arg
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1017
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1017

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

Ile Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu

640
20 25 30

Gly Glu Ile Ala Gly Phe Glu Tyr Ser Leu Gln Phe Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1018
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1018

Met Gly Ser Trp Thr Ile Phe Lys Glu Trp Leu Ala Phe Ile Lys Thr
1 5 10 15

Asp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Gly Trp Ile Ala Ser Phe Glu Met Glu Leu Gln Lys Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1019
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1019

Met Gly Ser Trp Val Met Phe Lys Trp Leu Leu Ala Asp Ile Lys Ser
1 5 10 15

His Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Gly Phe Ile Ala Ala Phe Glu Thr His Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1020
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1020

Met Gly Ser Trp Tyr Ala Phe Lys Asp Tyr Leu Ala Asp Ile Lys Gly
1 5 10 15

Trp Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Phe Phe Glu
20 25 30

Ile Phe Ile Ala Arg Phe Glu Leu Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1021
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1021

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1022

<400> 1022
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<210> 1023

<400> 1023
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<210> 1024

<400> 1024
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<210> 1025

<400> 1025
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<210> 1026

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<210> 1028

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<210> 1029

<400> 1029
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<210> 1030
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1030

Met Gly Ser Trp Glu Glu Phe Glu Leu Arg Leu Asn Ala Ile Glu Glu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Tyr Val Ile Ala Asp Phe Glu Gly Asn Leu Gln Arg Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Tyr Phe Glu Ala Asp Ala Ile Phe
50 55 60

Glu Glu Leu Val Ala Tyr Arg His Asn
65 70

<210> 1031
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1031

Met Gly Ser Trp Phe Glu Phe Asn His Arg Leu Trp Ala Ile Phe Glu
1 5 10 15

Arg Leu Met Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Ala Met Ala Ala Val Ile Arg
50 55 60

Tyr His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1032
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1032

Met Gly Ser Trp Glu Glu Phe Asp Gly Arg Leu Phe Ala Ile Glu Gln
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

645

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Trp Phe Ala Ala Gly Ile Arg
50 55 60

Asp Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1033
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1033

Met Gly Ser Trp Ala Glu Phe Tyr His Arg Leu Tyr Ala Ile Glu Thr
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg His Trp Ala Ala Trp Ile Arg
50 55 60

Thr Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1034
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  1034

Met Gly Ser Trp Val Glu Phe Ser Asp Arg Leu Tyr Ala Ile Glu Glu
1               5                   10                  15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Glu Leu Arg Glu Leu Ala Ala Ile Ile Arg
    50                  55                  60

His Ser Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  1035
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1035

Met Gly Ser Trp Trp Glu Phe Glu Gly Arg Leu Tyr Ala Ile Glu Glu
1               5                   10                  15

Arg Leu Thr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Glu Trp Ala Ala Trp Ile Arg
    50                  55                  60

Gln Met Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1036
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1036

Met Gly Ser Trp Trp Glu Phe Glu His Arg Leu Tyr Ala Ile Glu Glu
1 5 10 15

Arg Leu Val Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Asn Trp Ala Ala Tyr Ile Arg
50 55 60

Met Ala Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1037
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1037

Met Gly Ser Trp Trp Glu Phe Glu Ala Arg Leu Tyr Ala Ile Glu Phe
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Ser Trp Ala Ala Tyr Ile Arg
50 55 60

Thr Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1038
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1038

Met Gly Ser Trp Trp Glu Phe Glu Ala Arg Leu Trp Ala Ile Glu Ser
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg His Trp Ala Ala Tyr Ile Arg
50 55 60

Val Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1039
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1039

Met Gly Ser Trp Trp Glu Phe Glu Ala Arg Leu Tyr Ala Ile Glu Phe
1 5 10 15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Ser Trp Ala Ala Tyr Ile Arg
50 55 60

Thr Ser Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1040
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1040

Met Gly Ser Trp Glu Glu Phe Tyr His Arg Leu Asp Ala Ile Glu Leu
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Trp Tyr Ala Ala Glu Ile Arg
50 55 60

Glu Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1041
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1041

Met Gly Ser Trp Tyr Glu Phe Tyr Glu Arg Leu Asp Ala Ile Asp Thr
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Glu Tyr Ala Ala Glu Ile Arg
50 55 60

His Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1042
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1042

Met Gly Ser Trp Asn Glu Phe Phe Asp Arg Leu Asp Ala Ile Leu Tyr
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Phe Val Ala Ala Asp Ile Arg
50 55 60

Ser Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1043
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1043

Met Gly Ser Trp Ile Glu Phe Asp Asp Arg Leu Leu Ala Ile Met Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Asp Val Ala Ala Asp Ile Arg
50 55 60

His Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1044
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1044

Met Gly Ser Trp Tyr Glu Phe Trp Glu Arg Leu Asp Ala Ile Thr Phe
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Thr Trp Ala Ala Asp Ile Arg
50 55 60

Ala Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1045
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1045

Met Gly Ser Trp Glu Glu Phe Tyr Ile Arg Leu Asp Ala Ile Met Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Tyr Ala Ala Ala Asp Ile Arg
50 55 60

His Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1046
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1046

Met Gly Ser Trp Ile Glu Phe Glu Glu Arg Leu Tyr Ala Ile Glu Thr
1 5 10 15

Arg Leu Leu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Val Val Ala Ala Asp Ile Arg
50 55 60

Glu Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1047
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1047

Met Gly Ser Trp Ile Glu Phe Glu His Arg Leu Ser Ala Ile Asn Asp
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Glu Trp Ala Ala Asp Ile Arg
50 55 60

Ser Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1048
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1048

Met Gly Ser Trp Phe Glu Phe Glu Met Arg Leu Asp Ala Ile Met Ala
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Tyr Ala Ala Ala Asp Ile Arg
50 55 60

Asp Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1049
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1049

Met Gly Ser Trp Tyr Glu Phe Val Tyr Arg Leu Asp Ala Ile Tyr Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Tyr Ala Ala Ala Asp Ile Arg
50 55 60

Asp Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1050
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1050

Met Gly Ser Trp Val Glu Phe Glu Asp Arg Leu Asp Ala Ile Leu Glu
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Glu Leu Ala Ala Asp Ile Arg
50 55 60

Asp Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1051
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1051

Met Gly Ser Trp Phe Glu Phe Glu Glu Arg Leu Ile Ala Ile Glu Glu
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Tyr Leu Arg Trp Ile Ala Ala Asp Ile Arg
50 55 60

Asp Val Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1052
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1052

Met Gly Ser Trp Ile Glu Phe Ala Asp Arg Leu Asp Ala Ile Leu Asp
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Glu Ile Ala Ala Asp Ile Arg
50 55 60

Ala Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1053
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1053

Met Gly Ser Trp Leu Glu Phe Glu Tyr Arg Leu Asp Ala Ile Leu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Glu Val Ala Ala Asp Ile Arg
50 55 60

Met Leu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1054
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1054

Met Gly Ser Trp Tyr Glu Phe His Asp Arg Leu Asp Ala Ile Thr Asn
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Asp Trp Ala Ala Asp Ile Arg
50 55 60

Val Trp Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1055
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1055

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

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Glu Trp Ala Ala Asp Ile Arg
50 55 60

Ile Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1056
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1056

Met Gly Ser Trp Tyr Glu Phe Tyr Ser Arg Leu Asp Ala Ile Asp Ser
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Phe Leu Arg Asp Tyr Ala Ala Glu Ile Arg
50 55 60

Arg Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1057
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1057

Met Gly Ser Trp Glu Glu Phe His Asp Arg Leu Glu Ala Ile Ser Asp
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

660
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Asp Trp Ala Ala Asp Ile Arg
50 55 60

Phe Tyr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1058
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1058

Met Gly Ser Trp Trp Glu Phe Asp Glu Arg Leu Tyr Ala Ile Glu Asp
1 5 10 15

Arg Leu Phe Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Trp Leu Arg Ile Val Ala Ala Asp Ile Arg
50 55 60

Glu Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1059
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1059

Met Gly Ser Trp Glu Glu Phe Glu Tyr Arg Leu Met Ala Ile Glu Val
1 5 10 15

Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Glu Ile Ala Ala Asp Ile Arg
50 55 60

Gln Ile Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1060
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1060

Met Gly Ser Trp Val Val Phe Lys Gln Arg Leu Ala Tyr Ile Lys Asp
1 5 10 15

Leu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Tyr Phe Glu
20 25 30

Met Ser Ile Ala Phe Phe Glu Glu Asp Leu Gln Val Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1061
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1061

Met Gly Ser Trp Tyr Glu Phe Lys Asn Asp Leu Ala Trp Ile Lys Val
1 5 10 15

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

Phe Arg Ile Ala His Phe Glu Asn Ala Leu Gln Tyr Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1062
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1062

Met Gly Ser Trp Val Glu Phe Tyr Asn Arg Leu Trp Ala Ile Asp His
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Val Leu Arg Tyr His Ala Ala Ser Ile Arg
50 55 60

Val Thr Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1063
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1063

Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu His Ala Ile His His
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Asp Thr Ala Ala Phe Ile Arg
50 55 60

Thr Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1064
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  1064

Met Gly Ser Trp Lys Glu Phe His Phe Arg Leu His Ala Ile Glu His
1               5                  10                  15

Arg Leu Ile Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Phe Leu Arg Ala Lys Ala Ala Asn Ile Arg
    50                  55                  60

Thr His Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  1065
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1065

Met Gly Ser Trp Phe Glu Phe His Gly Arg Leu His Ala Ile Tyr Gly
1               5                  10                  15

Arg Leu Ser Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu His Leu Arg Ala His Ala Ala His Ile Arg
    50                  55                  60

Asp His Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1066
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1066

Met Gly Ser Trp Tyr Glu Phe Ala Asp Arg Leu His Ala Ile His Gln
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Met Thr Ala Ala Phe Ile Arg
50 55 60

Ser Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1067
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1067

Met Gly Ser Trp Asn Glu Phe Tyr Asn Arg Leu His Ala Ile His Gln
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Gln Thr Ala Ala Tyr Ile Arg
50 55 60

Asp Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1068
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1068

Met Gly Ser Trp Asn Glu Phe Ala Asp Arg Leu His Ala Ile His Gln
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ser Leu Arg Met Thr Ala Ala Phe Ile Arg
50 55 60

Ser Arg Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1069
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  1069

Met Gly Ser Trp Thr Glu Phe Ser Tyr Arg Leu Gly Ala Ile Gln Ser
1               5                   10                  15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu His Leu Arg Tyr Asn Ala Ala Lys Ile Arg
    50                  55                  60

His Phe Leu Gln Ala Tyr Arg His Asn
65                  70

<210>  1070
<211>  73
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1070

Met Gly Ser Trp Gln Glu Phe Thr Thr Arg Leu Glu Ala Ile Tyr His
1               5                   10                  15

Arg Leu Arg Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu
            20                  25                  30

Gly Phe Ile Ala Glu Phe Glu Gly Asn Leu Gln Met Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Val His Glu Ala Tyr Ala Ile Met
    50                  55                  60

Glu Glu Leu His Ala Tyr Arg His Asn
65 70

<210> 1071
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1071

Met Gly Ser Trp Val Glu Phe Phe Asp Arg Leu Lys Ala Ile His Asp
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu
20 25 30

Lys Leu Ile Ala His Phe Glu His Arg Leu Gln Asn Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Glu Lys Glu Ala Asp Ala Ile Leu
50 55 60

Tyr Glu Leu Ala Ala Tyr Arg His Asn
65 70

<210> 1072
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1072

Met Gly Ser Trp Tyr Tyr Phe Lys His His Leu Ala Trp Ile Lys Met
1 5 10 15

Glu Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala His Phe Glu

20 25 30

Ser Ser Ile Ala Ser Phe Glu Arg Asp Leu Gln Gln Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1073
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1073

Met Gly Ser Trp Val Glu Phe His Ile Arg Leu His Ala Ile Gln Tyr
1 5 10 15

Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg His Trp Ala Ala Phe Ile Arg
50 55 60

Leu Gln Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1074
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1074

Met Gly Ser Trp Asn Glu Phe His Asp Arg Leu Asn Ala Ile His Ala
1 5 10 15

Arg Leu His Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Asp Asp Ala Ala Phe Ile Arg
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1075
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1075

Met Gly Ser Trp Tyr Glu Phe Thr Val Arg Leu Glu Ala Ile His Glu
1 5 10 15

Arg Leu Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ile Leu Arg Asp Asp Ala Ala Phe Ile Arg
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1076
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1076

Met Gly Ser Trp Lys Glu Phe Asp Asp Arg Leu Asn Ala Ile Lys Ala
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Asp Asp Ala Ala Phe Ile Arg
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1077
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1077

Met Gly Ser Trp Tyr Glu Phe Asp Asp Arg Leu Asn Ala Ile His Asp
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asp Leu Arg Asp Asp Ala Ala Phe Ile Arg
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1078
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1078

Met Gly Ser Trp Asn Glu Phe Lys Asn Arg Leu Asp Ala Ile His Lys
1 5 10 15

Arg Leu Asn Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Asn Leu Arg Asp Asp Ala Ala Phe Ile Arg
50 55 60

His Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1079
<211> 73
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1079

Met Gly Ser Trp Thr Glu Phe Glu Gln Arg Leu Glu Ala Ile His Asn
1 5 10 15

Arg Leu Gln Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Glu Leu Arg Asn Asp Ala Ala Phe Ile Arg
50 55 60

His Phe Leu Gln Ala Tyr Arg His Asn
65 70

<210> 1080

<400> 1080
000

<210> 1081
<211> 163
<212> PRT
<213> Homo sapiens

<400> 1081

Leu Gln Asp Pro Cys Ser Asn Cys Pro Ala Gly Thr Phe Cys Asp Asn
1 5 10 15

Asn Arg Asn Gln Ile Cys Ser Pro Cys Pro Pro Asn Ser Phe Ser Ser
20 25 30

Ala Gly Gly Gln Arg Thr Cys Asp Ile Cys Arg Gln Cys Lys Gly Val
35 40 45

Phe Arg Thr Arg Lys Glu Cys Ser Ser Thr Ser Asn Ala Glu Cys Asp

50 55 60

Cys Thr Pro Gly Phe His Cys Leu Gly Ala Gly Cys Ser Met Cys Glu
65 70 75 80

Gln Asp Cys Lys Gln Gly Gln Glu Leu Thr Lys Lys Gly Cys Lys Asp
85 90 95

Cys Cys Phe Gly Thr Phe Asn Asp Gln Lys Arg Gly Ile Cys Arg Pro
100 105 110

Trp Thr Asn Cys Ser Leu Asp Gly Lys Ser Val Leu Val Asn Gly Thr
115 120 125

Lys Glu Arg Asp Val Val Cys Gly Pro Ser Pro Ala Asp Leu Ser Pro
130 135 140

Gly Ala Ser Ser Val Thr Pro Pro Ala Pro Ala Arg Glu Pro Gly His
145 150 155 160

Ser Pro Gln

<210> 1082
<211> 170
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1082

Asp Glu Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr Ala Ile
1 5 10 15

Glu Trp Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala
20 25 30

Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys

675
35 40 45

Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala Ala Val
50 55 60

Ile Arg Ser Asn Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser
65 70 75 80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Leu Gln Met Ala
85 90 95

Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys
100 105 110

Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys
115 120 125

Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Thr Asn
130 135 140

Ala Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
145 150 155 160

His His His His His His His His His His
165 170

<210> 1083
<211> 175
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1083

Asp Glu Gly Gly Gly Gly Ser Met Gly Ser Trp Ala Glu Phe Lys Gln
1 5 10 15

Arg Leu Ala Ala Ile Lys Thr Arg Leu Gln Ala Leu Gly Gly Ser Glu

20 25 30

Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu
35 40 45

Leu Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Ala Leu Arg
50 55 60

Lys Glu Ala Ala Ala Ile Arg Asp Glu Leu Gln Ala Tyr Arg His Asn
65 70 75 80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
85 90 95

Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
100 105 110

Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
115 120 125

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

Val Lys Gly Thr Asn Ala Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
145 150 155 160

Gly Gly Gly Gly Ser His His His His His His His His His His
165 170 175

<210> 1084
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1084

Asp Glu His His His His His His His His His His Lys Leu Glu Asn

```
1               5                   10                  15

Leu Tyr Phe Gln Gly Gly Gly Gly Gly Ser Met Gly Ser Trp Asp Glu
            20                  25                  30

Phe Gly Arg Arg Leu Tyr Ala Ile Glu Trp Arg Leu Tyr Ala Leu Gly
        35                  40                  45

Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe
    50                  55                  60

Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu
65                  70                  75                  80

Lys Leu Arg Glu Ile Ala Ala Val Ile Arg Ser Asn Leu Gln Ala Tyr
                85                  90                  95

Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
            100                 105                 110

Gly Ser Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln
        115                 120                 125

Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala
    130                 135                 140

Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr
145                 150                 155                 160

Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu
                165                 170                 175

Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala
            180                 185                 190

Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu
        195                 200                 205
```

```
Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met
    210                 215                 220

Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala
225                 230                 235                 240

Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val
                245                 250                 255

Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys
            260                 265                 270

Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile
        275                 280                 285

Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala
    290                 295                 300

Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln
305                 310                 315                 320

Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys
                325                 330                 335

Thr Arg Ala Ala Leu Gly Val
            340
```

<210>  1085
<211>  343
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1085

```
Asp Glu His His His His His His His His His His Lys Leu Glu Asn
1               5                   10                  15
```

```
Leu Tyr Phe Gln Gly Gly Gly Gly Gly Ser Met Gly Ser Trp Ser Glu
            20                  25                  30

Phe Trp Val Arg Leu Gly Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly
        35                  40                  45

Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe
    50                  55                  60

Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu
65                  70                  75                  80

Lys Leu Arg Tyr Thr Ala Ala Thr Ile Arg Arg Phe Leu Gln Ala Tyr
                85                  90                  95

Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
            100                 105                 110

Gly Ser Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln
        115                 120                 125

Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala
    130                 135                 140

Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr
145                 150                 155                 160

Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu
                165                 170                 175

Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala
            180                 185                 190

Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu
        195                 200                 205

Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met
```

680
210 215 220

Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala
225 230 235 240

Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val
245 250 255

Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys
260 265 270

Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile
275 280 285

Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala
290 295 300

Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln
305 310 315 320

Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys
325 330 335

Thr Arg Ala Ala Leu Gly Val
340

<210> 1086
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1086

Asp Glu His His His His His His His His His His Lys Leu Glu Asn
1 5 10 15

Leu Tyr Phe Gln Gly Gly Gly Gly Gly Ser Met Gly Ser Trp Ala Glu

20 25 30

Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr Arg Leu Glu Ala Leu Gly
35 40 45

Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe
50 55 60

Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu
65 70 75 80

Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg Asp Glu Leu Gln Ala Tyr
85 90 95

Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
100 105 110

Gly Ser Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln
115 120 125

Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala
130 135 140

Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr
145 150 155 160

Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu
165 170 175

Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala
180 185 190

Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu
195 200 205

Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met
210 215 220

```
Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala
225                 230                 235                 240


Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val
                245                 250                 255


Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys
            260                 265                 270


Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile
        275                 280                 285


Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala
    290                 295                 300


Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln
305                 310                 315                 320


Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys
                325                 330                 335


Thr Arg Ala Ala Leu Gly Val
            340


<210>  1087
<211>  438
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1087

Asp Glu Gly Gly Gly Gly Ser Met Gly Ser Trp Asp Glu Phe Gly Arg
1               5                   10                  15


Arg Leu Tyr Ala Ile Glu Trp Gln Leu Tyr Ala Leu Gly Gly Thr Glu
            20                  25                  30
```

```
Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu
        35                  40                  45

Leu Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg
    50                  55                  60

Glu Ile Ala Ala Val Ile Arg Glu Asn Leu Gln Ala Tyr Arg His Asn
65                  70                  75                  80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
                85                  90                  95

Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys
            100                 105                 110

Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
        115                 120                 125

Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
    130                 135                 140

Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
145                 150                 155                 160

Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
                165                 170                 175

Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
            180                 185                 190

Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
        195                 200                 205

Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
    210                 215                 220

Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro
```

225 230 235 240

Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
245 250 255

Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
260 265 270

Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
275 280 285

Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
290 295 300

Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg
305 310 315 320

Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
325 330 335

Gly Gly Gly Ser Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr
340 345 350

Ala Ile Glu Trp Gln Leu Tyr Ala Leu Gly Gly Thr Glu Ala Glu Leu
355 360 365

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
370 375 380

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala
385 390 395 400

Ala Val Ile Arg Glu Asn Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
405 410 415

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser His His His His
420 425 430

His His His His His His
        435

<210>  1088
<211>  438
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1088

Asp Glu Gly Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Trp Val
1               5                   10                  15

Arg Leu Gly Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu
            20                  25                  30

Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu
        35                  40                  45

Leu Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg
    50                  55                  60

Tyr Thr Ala Ala Thr Ile Arg Arg Phe Leu Gln Ala Tyr Arg His Asn
65                  70                  75                  80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
                85                  90                  95

Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys
            100                 105                 110

Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
        115                 120                 125

Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
    130                 135                 140

```
Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
145                 150                 155                 160

Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
                165                 170                 175

Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
            180                 185                 190

Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
        195                 200                 205

Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
    210                 215                 220

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

Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
                245                 250                 255

Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
            260                 265                 270

Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
        275                 280                 285

Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
    290                 295                 300

Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg
305                 310                 315                 320

Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
                325                 330                 335

Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Trp Val Arg Leu Gly
```

340 345 350

Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu
355 360 365

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
370 375 380

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala
385 390 395 400

Ala Thr Ile Arg Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
405 410 415

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser His His His His
420 425 430

His His His His His His
435

<210> 1089
<211> 338
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1089

Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1 5 10 15

Phe Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Gly
20 25 30

Gly Gly Gly Ser Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala
35 40 45

Ala Ile Lys Thr Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu

50 55 60

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
65 70 75 80

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala
85 90 95

Ala Ala Ile Arg Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gln Ala
100 105 110

Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro
115 120 125

Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro
130 135 140

Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp
145 150 155 160

Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
165 170 175

Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu Leu
180 185 190

Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu
195 200 205

Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys
210 215 220

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

Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu
245 250 255

```
Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly
            260                 265                 270

Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu
        275                 280                 285

Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly
    290                 295                 300

Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser
305                 310                 315                 320

Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro
                325                 330                 335

Pro Arg
```

<210> 1090
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1090

```
Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1               5                   10                  15

Phe Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Gly
            20                  25                  30

Gly Gly Gly Ser Met Gly Ser Trp Asp Glu Phe Gly Arg Arg Leu Tyr
        35                  40                  45

Ala Ile Glu Trp Arg Leu Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu
    50                  55                  60
```

```
Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
65                  70                  75                  80

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Glu Ile Ala
                85                  90                  95

Ala Val Ile Arg Ser Asn Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
            100                 105                 110

Gly Ser Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
        115                 120                 125

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
    130                 135                 140

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
145                 150                 155                 160

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
                165                 170                 175

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
            180                 185                 190

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
        195                 200                 205

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
    210                 215                 220

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
225                 230                 235                 240

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
                245                 250                 255

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
```

260 265 270

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
275 280 285

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
290 295 300

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
305 310 315 320

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
325 330 335

Met Gln Ala Leu Pro Pro Arg
340

<210> 1091
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1091

Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1 5 10 15

Phe Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Gly
20 25 30

Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Trp Val Arg Leu Gly
35 40 45

Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu
50 55 60

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala

65 70 75 80

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala
85 90 95

Ala Thr Ile Arg Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
115 120 125

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
130 135 140

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
145 150 155 160

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
165 170 175

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
180 185 190

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
195 200 205

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
210 215 220

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
225 230 235 240

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
245 250 255

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
260 265 270

```
Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
        275                 280                 285

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
    290                 295                 300

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
305                 310                 315                 320

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
                325                 330                 335

Met Gln Ala Leu Pro Pro Arg
            340
```

<210> 1092
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1092

```
Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1               5                   10                  15

Phe Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Gly
            20                  25                  30

Gly Gly Gly Ser Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn
        35                  40                  45

Ala Ile Asp Ala Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu
    50                  55                  60

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
65                  70                  75                  80
```

```
Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Asn Leu Arg Val His Ala
                85                  90                  95

Ala Ala Ile Arg Glu Trp Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
            100                 105                 110

Gly Ser Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
        115                 120                 125

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
    130                 135                 140

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
145                 150                 155                 160

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
                165                 170                 175

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
            180                 185                 190

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
        195                 200                 205

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
    210                 215                 220

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
225                 230                 235                 240

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
                245                 250                 255

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
            260                 265                 270

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
```

695
275 280 285

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
290 295 300

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
305 310 315 320

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
325 330 335

Met Gln Ala Leu Pro Pro Arg
340

<210> 1093
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1093

Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1 5 10 15

Phe Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Gly
20 25 30

Gly Gly Gly Ser Met Gly Ser Trp Leu Glu Phe Tyr His Arg Leu Asn
35 40 45

Ala Ile Asp Ser Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu
50 55 60

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
65 70 75 80

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Ser Leu Arg Asp His Ala

```
                85                  90                  95

Ala His Ile Arg Glu Trp Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
            100                 105                 110

Gly Ser Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
        115                 120                 125

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
    130                 135                 140

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
145                 150                 155                 160

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
                165                 170                 175

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
            180                 185                 190

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
        195                 200                 205

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
    210                 215                 220

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
225                 230                 235                 240

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
                245                 250                 255

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
            260                 265                 270

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
        275                 280                 285
```

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
290 295 300

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
305 310 315 320

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
325 330 335

Met Gln Ala Leu Pro Pro Arg
340

<210> 1094

<400> 1094
000

<210> 1095

<400> 1095
000

<210> 1096

<400> 1096
000

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<210> 1098

<400> 1098
000

<210> 1099
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1099

Gly Gly Gly Gly Gly
1 5

<210> 1100
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1100

Gly Gly Gly Gly Gly Gly Gly Gly
1 5

<210> 1101
<211> 25
<212> PRT
<213> Homo sapiens

<400> 1101

Met Thr Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe
1 5 10 15

Leu Asp Thr Glu Val Phe Val Thr Gly
20 25

<210> 1102
<211> 1306
<212> PRT
<213> Homo sapiens

<400> 1102

Met Thr Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe
1 5 10 15

Leu Asp Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro
20 25 30

```
Thr Gly Leu Thr Thr Ala Lys Met Pro Ser Val Pro Leu Ser Ser Asp
        35                  40                  45

Pro Leu Pro Thr His Thr Thr Ala Phe Ser Pro Ala Ser Thr Phe Glu
    50                  55                  60

Arg Glu Asn Asp Phe Ser Glu Thr Thr Thr Ser Leu Ser Pro Asp Asn
65                  70                  75                  80

Thr Ser Thr Gln Val Ser Pro Asp Ser Leu Asp Asn Ala Ser Ala Phe
                85                  90                  95

Asn Thr Thr Gly Val Ser Ser Val Gln Thr Pro His Leu Pro Thr His
            100                 105                 110

Ala Asp Ser Gln Thr Pro Ser Ala Gly Thr Asp Thr Gln Thr Phe Ser
        115                 120                 125

Gly Ser Ala Ala Asn Ala Lys Leu Asn Pro Thr Pro Gly Ser Asn Ala
    130                 135                 140

Ile Ser Asp Val Pro Gly Glu Arg Ser Thr Ala Ser Thr Phe Pro Thr
145                 150                 155                 160

Asp Pro Val Ser Pro Leu Thr Thr Thr Leu Ser Leu Ala His His Ser
                165                 170                 175

Ser Ala Ala Leu Pro Ala Arg Thr Ser Asn Thr Thr Ile Thr Ala Asn
            180                 185                 190

Thr Ser Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro
        195                 200                 205

Ser Gly Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser
    210                 215                 220

Lys Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu
225                 230                 235                 240
```

```
Tyr Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu
                245                 250                 255

Asn Val Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn
            260                 265                 270

Leu Thr Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys
        275                 280                 285

Thr Ala Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu
    290                 295                 300

Lys Phe Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr
305                 310                 315                 320

Ile Cys Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln
                325                 330                 335

Asn Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys
            340                 345                 350

Glu Ile Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp
        355                 360                 365

Ser Glu Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile
    370                 375                 380

Ile Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys
385                 390                 395                 400

Arg Ser Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln
                405                 410                 415

Arg Ser Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys
            420                 425                 430
```

```
Asp Cys Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn
        435                 440                 445

Leu Lys Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile
    450                 455                 460

Ala Lys Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr
465                 470                 475                 480

Lys Ser Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr
                485                 490                 495

Ser Asp Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn
            500                 505                 510

Gly Pro His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu
        515                 520                 525

Val Arg Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu
    530                 535                 540

Gln Tyr Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp
545                 550                 555                 560

Tyr Pro Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser
                565                 570                 575

Lys Ala Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile
            580                 585                 590

Ala Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg
        595                 600                 605

Ser Cys Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu
    610                 615                 620

Lys Gln Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu
625                 630                 635                 640
```

```
Thr Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe Leu Ala Glu
                645                 650                 655

Phe Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala
            660                 665                 670

Arg Lys Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro
        675                 680                 685

Tyr Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly
    690                 695                 700

Ser Asn Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg
705                 710                 715                 720

Lys Tyr Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe
                725                 730                 735

Trp Arg Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr
            740                 745                 750

Arg Cys Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser
        755                 760                 765

Met Glu Glu Gly Thr Arg Ala Phe Gly Asp Val Val Val Lys Ile Asn
    770                 775                 780

Gln His Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys Leu Asn Ile Val
785                 790                 795                 800

Asn Lys Lys Glu Lys Ala Thr Gly Arg Glu Val Thr His Ile Gln Phe
                805                 810                 815

Thr Ser Trp Pro Asp His Gly Val Pro Glu Asp Pro His Leu Leu Leu
            820                 825                 830
```

Lys Leu Arg Arg Arg Val Asn Ala Phe Ser Asn Phe Phe Ser Gly Pro
835 840 845

Ile Val Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Thr Tyr Ile
850 855 860

Gly Ile Asp Ala Met Leu Glu Gly Leu Glu Ala Glu Asn Lys Val Asp
865 870 875 880

Val Tyr Gly Tyr Val Val Lys Leu Arg Arg Gln Arg Cys Leu Met Val
885 890 895

Gln Val Glu Ala Gln Tyr Ile Leu Ile His Gln Ala Leu Val Glu Tyr
900 905 910

Asn Gln Phe Gly Glu Thr Glu Val Asn Leu Ser Glu Leu His Pro Tyr
915 920 925

Leu His Asn Met Lys Lys Arg Asp Pro Pro Ser Glu Pro Ser Pro Leu
930 935 940

Glu Ala Glu Phe Gln Arg Leu Pro Ser Tyr Arg Ser Trp Arg Thr Gln
945 950 955 960

His Ile Gly Asn Gln Glu Glu Asn Lys Ser Lys Asn Arg Asn Ser Asn
965 970 975

Val Ile Pro Tyr Asp Tyr Asn Arg Val Pro Leu Lys His Glu Leu Glu
980 985 990

Met Ser Lys Glu Ser Glu His Asp Ser Asp Glu Ser Ser Asp Asp Asp
995 1000 1005

Ser Asp Ser Glu Glu Pro Ser Lys Tyr Ile Asn Ala Ser Phe Ile
1010 1015 1020

Met Ser Tyr Trp Lys Pro Glu Val Met Ile Ala Ala Gln Gly Pro
1025 1030 1035

```
Leu Lys  Glu Thr Ile Gly Asp  Phe Trp Gln Met Ile  Phe Gln Arg
    1040                1045                1050

Lys Val  Lys Val Ile Val Met  Leu Thr Glu Leu Lys  His Gly Asp
    1055                1060                1065

Gln Glu  Ile Cys Ala Gln Tyr  Trp Gly Glu Gly Lys  Gln Thr Tyr
    1070                1075                1080

Gly Asp  Ile Glu Val Asp Leu  Lys Asp Thr Asp Lys  Ser Ser Thr
    1085                1090                1095

Tyr Thr  Leu Arg Val Phe Glu  Leu Arg His Ser Lys  Arg Lys Asp
    1100                1105                1110

Ser Arg  Thr Val Tyr Gln Tyr  Gln Tyr Thr Asn Trp  Ser Val Glu
    1115                1120                1125

Gln Leu  Pro Ala Glu Pro Lys  Glu Leu Ile Ser Met  Ile Gln Val
    1130                1135                1140

Val Lys  Gln Lys Leu Pro Gln  Lys Asn Ser Ser Glu  Gly Asn Lys
    1145                1150                1155

His His  Lys Ser Thr Pro Leu  Leu Ile His Cys Arg  Asp Gly Ser
    1160                1165                1170

Gln Gln  Thr Gly Ile Phe Cys  Ala Leu Leu Asn Leu  Leu Glu Ser
    1175                1180                1185

Ala Glu  Thr Glu Glu Val Val  Asp Ile Phe Gln Val  Val Lys Ala
    1190                1195                1200

Leu Arg  Lys Ala Arg Pro Gly  Met Val Ser Thr Phe  Glu Gln Tyr
    1205                1210                1215
```

```
Gln Phe  Leu Tyr Asp Val Ile  Ala Ser Thr Tyr Pro  Ala Gln Asn
    1220                1225                1230


Gly Gln  Val Lys Lys Asn Asn  His Gln Glu Asp Lys  Ile Glu Phe
    1235                1240                1245


Asp Asn  Glu Val Asp Lys Val  Lys Gln Asp Ala Asn  Cys Val Asn
    1250                1255                1260


Pro Leu  Gly Ala Pro Glu Lys  Leu Pro Glu Ala Lys  Glu Gln Ala
    1265                1270                1275


Glu Gly  Ser Glu Pro Thr Ser  Gly Thr Glu Gly Pro  Glu His Ser
    1280                1285                1290


Val Asn  Gly Pro Ala Ser Pro  Ala Leu Asn Gln Gly  Ser
    1295                1300                1305


<210>  1103
<211>  1145
<212>  PRT
<213>  Homo sapiens

<400>  1103

Met Thr Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe
1               5                   10                  15


Leu Asp Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro
            20                  25                  30


Thr Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser
        35                  40                  45


Gly Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys
    50                  55                  60


Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr
65                  70                  75                  80
```

```
Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn
                85                  90                  95

Val Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu
            100                 105                 110

Thr Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr
        115                 120                 125

Ala Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys
    130                 135                 140

Phe Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile
145                 150                 155                 160

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

Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu
            180                 185                 190

Ile Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser
        195                 200                 205

Glu Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile
    210                 215                 220

Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg
225                 230                 235                 240

Ser Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln Arg
                245                 250                 255

Ser Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys Asp
            260                 265                 270

Cys Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn Leu
```

275 280 285

Lys Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile Ala
290 295 300

Lys Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr Lys
305 310 315 320

Ser Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr Ser
325 330 335

Asp Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn Gly
340 345 350

Pro His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu Val
355 360 365

Arg Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu Gln
370 375 380

Tyr Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp Tyr
385 390 395 400

Pro Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser Lys
405 410 415

Ala Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile Ala
420 425 430

Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg Ser
435 440 445

Cys Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu Lys
450 455 460

Gln Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu Thr
465 470 475 480

```
Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe Leu Ala Glu Phe
                485                 490                 495

Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala Arg
            500                 505                 510

Lys Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro Tyr
        515                 520                 525

Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly Ser
    530                 535                 540

Asn Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg Lys
545                 550                 555                 560

Tyr Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp
                565                 570                 575

Arg Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr Arg
            580                 585                 590

Cys Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met
        595                 600                 605

Glu Glu Gly Thr Arg Ala Phe Gly Asp Val Val Val Lys Ile Asn Gln
    610                 615                 620

His Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys Leu Asn Ile Val Asn
625                 630                 635                 640

Lys Lys Glu Lys Ala Thr Gly Arg Glu Val Thr His Ile Gln Phe Thr
                645                 650                 655

Ser Trp Pro Asp His Gly Val Pro Glu Asp Pro His Leu Leu Leu Lys
            660                 665                 670

Leu Arg Arg Arg Val Asn Ala Phe Ser Asn Phe Phe Ser Gly Pro Ile
```

```
                                        709
        675                 680                 685

Val Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Thr Tyr Ile Gly
    690                 695                 700

Ile Asp Ala Met Leu Glu Gly Leu Glu Ala Glu Asn Lys Val Asp Val
705                 710                 715                 720

Tyr Gly Tyr Val Val Lys Leu Arg Arg Gln Arg Cys Leu Met Val Gln
                725                 730                 735

Val Glu Ala Gln Tyr Ile Leu Ile His Gln Ala Leu Val Glu Tyr Asn
            740                 745                 750

Gln Phe Gly Glu Thr Glu Val Asn Leu Ser Glu Leu His Pro Tyr Leu
        755                 760                 765

His Asn Met Lys Lys Arg Asp Pro Pro Ser Glu Pro Ser Pro Leu Glu
    770                 775                 780

Ala Glu Phe Gln Arg Leu Pro Ser Tyr Arg Ser Trp Arg Thr Gln His
785                 790                 795                 800

Ile Gly Asn Gln Glu Glu Asn Lys Ser Lys Asn Arg Asn Ser Asn Val
                805                 810                 815

Ile Pro Tyr Asp Tyr Asn Arg Val Pro Leu Lys His Glu Leu Glu Met
            820                 825                 830

Ser Lys Glu Ser Glu His Asp Ser Asp Glu Ser Ser Asp Asp Asp Ser
        835                 840                 845

Asp Ser Glu Glu Pro Ser Lys Tyr Ile Asn Ala Ser Phe Ile Met Ser
    850                 855                 860

Tyr Trp Lys Pro Glu Val Met Ile Ala Ala Gln Gly Pro Leu Lys Glu
865                 870                 875                 880
```

```
Thr Ile Gly Asp Phe Trp Gln Met Ile Phe Gln Arg Lys Val Lys Val
                885                 890                 895


Ile Val Met Leu Thr Glu Leu Lys His Gly Asp Gln Glu Ile Cys Ala
            900                 905                 910


Gln Tyr Trp Gly Glu Gly Lys Gln Thr Tyr Gly Asp Ile Glu Val Asp
        915                 920                 925


Leu Lys Asp Thr Asp Lys Ser Ser Thr Tyr Thr Leu Arg Val Phe Glu
    930                 935                 940


Leu Arg His Ser Lys Arg Lys Asp Ser Arg Thr Val Tyr Gln Tyr Gln
945                 950                 955                 960


Tyr Thr Asn Trp Ser Val Glu Gln Leu Pro Ala Glu Pro Lys Glu Leu
                965                 970                 975


Ile Ser Met Ile Gln Val Val Lys Gln Lys Leu Pro Gln Lys Asn Ser
            980                 985                 990


Ser Glu Gly Asn Lys His His Lys  Ser Thr Pro Leu Leu  Ile His Cys
        995                 1000                1005


Arg Asp  Gly Ser Gln Gln Thr  Gly Ile Phe Cys Ala  Leu Leu Asn
    1010                1015                1020


Leu Leu  Glu Ser Ala Glu Thr  Glu Glu Val Val Asp  Ile Phe Gln
    1025                1030                1035


Val Val  Lys Ala Leu Arg Lys  Ala Arg Pro Gly Met  Val Ser Thr
    1040                1045                1050


Phe Glu  Gln Tyr Gln Phe Leu  Tyr Asp Val Ile Ala  Ser Thr Tyr
    1055                1060                1065


Pro Ala  Gln Asn Gly Gln Val  Lys Lys Asn Asn His  Gln Glu Asp
```

1070 1075 1080

Lys Ile Glu Phe Asp Asn Glu Val Asp Lys Val Lys Gln Asp Ala
1085 1090 1095

Asn Cys Val Asn Pro Leu Gly Ala Pro Glu Lys Leu Pro Glu Ala
1100 1105 1110

Lys Glu Gln Ala Glu Gly Ser Glu Pro Thr Ser Gly Thr Glu Gly
1115 1120 1125

Pro Glu His Ser Val Asn Gly Pro Ala Ser Pro Ala Leu Asn Gln
1130 1135 1140

Gly Ser
1145

<210> 1104
<211> 1310
<212> PRT
<213> Macaca mulatta

<400> 1104

Met Thr Met Cys Leu Trp Leu Lys Leu Leu Ala Phe Val Phe Ala Phe
1 5 10 15

Leu Asp Thr Glu Val Phe Val Thr Gly Gln Gly Ser Thr Leu Ser Pro
20 25 30

Thr Gly Arg Arg Thr Thr Lys Met Pro Ser Val Pro Leu Ser Ser Asp
35 40 45

Pro Leu Pro Thr His Thr Thr Ala Phe Ser Pro Ala Ser Ile Ser Glu
50 55 60

Arg Glu Asn Asp Phe Ser Glu Thr Thr Pro Ser Leu Ser Ser Asp Asn
65 70 75 80

```
Thr Ser Thr His Val Ser Pro Asp Ser Leu Asp Asn Ala Ser Ala Phe
                85                  90                  95

Asn Thr Thr Gly Val Ser Ser Ala Leu Thr Pro His Leu Pro Thr His
            100                 105                 110

Ala Asp Ser Gln Thr Pro Ser Thr Gly Thr Asp Thr Gln Thr Pro Ser
        115                 120                 125

Gly Ser Ala Ala Asn Thr Thr Leu Ser Pro Thr Pro Arg Ser Asn Asp
    130                 135                 140

Ile Ser Asp Val Pro Gly Glu Arg Ser Thr Ala Ser Thr Phe Pro Thr
145                 150                 155                 160

Asp Pro Ile Ser Pro Leu Ala Thr Thr Leu Ile Pro Ala Arg Asn Ser
                165                 170                 175

Ser Ala Ala Leu Pro Ala Arg Thr Ser Asn Thr Thr Ile Thr Ala Asn
            180                 185                 190

Thr Ser Val Ser Tyr Leu Asn Ala Ser Glu Thr Thr Thr Pro Ser Pro
        195                 200                 205

Ser Gly Ser Thr Val Ile Ser Thr Pro Thr Ile Ala Thr Thr Thr Ser
    210                 215                 220

Lys Pro Thr Cys Ala Glu Lys Tyr Ala Thr Ile Pro Val Asp Tyr Leu
225                 230                 235                 240

Tyr Asn Asn Lys Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu
                245                 250                 255

Asn Val Glu Cys Thr Asn Asn Asn His Thr His Asn Ile Cys Thr Asn
            260                 265                 270

Asn Glu Val Leu Asn Leu Pro Glu Cys Lys Glu Met Asn Val Phe Val
        275                 280                 285
```

```
Ser His Asn Ser Cys Thr Asp Arg His Lys Glu Leu Lys Leu Asp Val
    290                 295                 300

Pro Pro Glu Val Glu Lys Phe Gln Leu Asp Asp Cys Thr Pro Asp Val
305                 310                 315                 320

Glu Ala Asn Thr Thr Ile Cys Leu Lys Trp Lys Ile Ile Glu Thr Phe
                325                 330                 335

Ala Cys Asp Lys Ser Lys Ile Thr Tyr Arg Phe Gln Cys Gly Asn Lys
            340                 345                 350

Thr Tyr Asn Lys Glu Gly Ile Tyr Leu Glu Asn Leu Glu Pro Glu Tyr
        355                 360                 365

Glu Tyr Lys Cys Asp Ser Glu Ile Leu Tyr Asn Asn His Lys Tyr Ile
    370                 375                 380

Asn Ile Thr Lys Leu Ile Lys Thr Asp Phe Gly Ile Pro Gly Gln Pro
385                 390                 395                 400

Gln Asn Val Val Cys Arg His Glu Asp Ala His Gln Gly Val Ile Thr
                405                 410                 415

Trp Asn Pro Pro Gln Arg Ser Phe His Asn Phe Thr Leu Cys Tyr Val
            420                 425                 430

Ser Lys Thr Ala Lys Lys Cys Leu Ser Leu Asp Lys His Leu Thr Thr
        435                 440                 445

Tyr His Leu Gln Asn Leu Lys Pro Tyr Thr Asn Tyr Ser Leu Ser Leu
    450                 455                 460

His Ala Tyr Ile Ile Ala Lys Val Gln Arg Asn Gly Thr Ala Ala Thr
465                 470                 475                 480
```

```
Cys Asn Phe Thr Thr Glu Ser Ala Pro Pro Ser Gln Val Gln Asn Met
                485                 490                 495

Ile Val Ser Thr Ser Asp Asn Ser Met Arg Val Lys Cys Glu Gly Pro
            500                 505                 510

Arg Asp Val Asn Gly Pro Thr Gly Leu Tyr His Leu Glu Val Glu Ala
        515                 520                 525

Gly Asn Thr Leu Val Arg Asn Leu Ser Gln Ser Lys Cys Asp Phe Ser
    530                 535                 540

Val Asn Asn Leu Gln Tyr Ser Thr Tyr Tyr Asn Leu Lys Ala Tyr Tyr
545                 550                 555                 560

His Asn Gly Lys Tyr Ser Gly Glu Pro Val Ile Leu Arg Glu Ser Thr
                565                 570                 575

Ser Tyr Asn Ser Lys Ala Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile
            580                 585                 590

Val Thr Ser Ile Ala Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu
        595                 600                 605

His Lys Lys Arg Ser Cys Asn Leu Asp Glu Gln Gln Glu Leu Val Glu
    610                 615                 620

Arg Asp Asp Glu Lys Gln Leu Met Asn Val Glu Pro Ile His Ala Asp
625                 630                 635                 640

Ile Leu Leu Glu Thr Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu
                645                 650                 655

Phe Leu Ala Glu Phe Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro
            660                 665                 670

Ile Lys Glu Ala Arg Lys Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val
        675                 680                 685
```

```
Asp Ile Leu Pro Tyr Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn
    690                 695                 700

Gly Asp Ala Gly Ser Asn Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe
705                 710                 715                 720

Lys Glu Pro Arg Lys Tyr Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr
                725                 730                 735

Val Asp Asp Phe Trp Arg Met Ile Trp Glu Gln Lys Ala Thr Val Ile
            740                 745                 750

Val Met Val Thr Arg Cys Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu
        755                 760                 765

Tyr Trp Pro Ser Met Glu Glu Gly Thr Arg Ala Phe Gly Asp Val Val
    770                 775                 780

Val Lys Ile Asn Gln His Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys
785                 790                 795                 800

Leu Asn Ile Val Asn Lys Lys Glu Lys Ala Thr Gly Arg Glu Val Thr
                805                 810                 815

His Ile Gln Phe Thr Ser Trp Pro Asp His Gly Val Pro Glu Asp Pro
            820                 825                 830

His Leu Leu Leu Lys Leu Arg Arg Arg Val Asn Ala Phe Ser Asn Phe
        835                 840                 845

Phe Ser Gly Pro Ile Val Val His Cys Ser Ala Gly Val Gly Arg Thr
    850                 855                 860

Gly Thr Tyr Ile Gly Ile Asp Ala Met Leu Glu Gly Leu Glu Ala Glu
865                 870                 875                 880
```

```
Asn Lys Val Asp Val Tyr Gly Tyr Val Val Lys Leu Arg Arg Gln Arg
                885                 890                 895

Cys Leu Met Val Gln Val Glu Ala Gln Tyr Ile Leu Ile His Gln Ala
            900                 905                 910

Leu Val Glu Tyr Asn Gln Phe Gly Glu Thr Glu Val Asn Leu Ser Glu
        915                 920                 925

Leu His Pro Tyr Leu His Asn Met Lys Lys Arg Asp Pro Pro Ser Glu
    930                 935                 940

Pro Ser Pro Leu Glu Ala Glu Phe Gln Arg Leu Pro Ser Tyr Arg Ser
945                 950                 955                 960

Trp Arg Thr Gln His Ile Gly Asn Gln Glu Glu Asn Lys Asn Lys Asn
                965                 970                 975

Arg Asn Ser Asn Val Ile Pro Tyr Asp Tyr Asn Arg Val Pro Leu Lys
            980                 985                 990

His Glu Leu Glu Met Ser Lys Glu  Ser Asp His Asp Ser  Asp Glu Ser
        995                 1000                1005

Ser Asp  Asp Asp Ser Asp Ser  Glu Glu Pro Ser Lys  Tyr Ile Asn
    1010                1015                1020

Ala Ser  Phe Ile Met Ser Tyr  Trp Lys Pro Glu Val  Met Ile Ala
    1025                1030                1035

Ala Gln  Gly Pro Leu Lys Glu  Thr Ile Gly Asp Phe  Trp Gln Met
    1040                1045                1050

Ile Phe  Gln Arg Lys Val Lys  Val Ile Val Met Leu  Thr Glu Leu
    1055                1060                1065

Lys His  Gly Asp Gln Glu Ile  Cys Ala Gln Tyr Trp  Gly Glu Gly
    1070                1075                1080
```

```
Lys Gln  Thr Tyr Gly Asp Ile  Glu Val Asp Met Lys  Asp Thr Asn
    1085                1090                1095

Lys Ser  Ser Thr Tyr Thr Leu  Arg Val Phe Glu Leu  Arg His Ser
    1100                1105                1110

Lys Arg  Lys Asp Ser Arg Thr  Val Tyr Gln Tyr Gln  Tyr Thr Asn
    1115                1120                1125

Trp Ser  Val Glu Gln Leu Pro  Ala Glu Pro Lys Glu  Leu Val Ser
    1130                1135                1140

Leu Ile  Gln Val Leu Lys Glu  Lys Leu Pro Gln Lys  Asn Ser Ser
    1145                1150                1155

Glu Gly  Asn Lys His His Lys  Ser Thr Pro Leu Leu  Ile His Cys
    1160                1165                1170

Arg Asp  Gly Ser Gln Gln Thr  Gly Ile Phe Cys Ala  Leu Leu Asn
    1175                1180                1185

Leu Leu  Glu Ser Ala Glu Thr  Glu Glu Val Val Asp  Ile Phe Gln
    1190                1195                1200

Val Val  Lys Ala Leu Arg Lys  Ala Arg Pro Gly Met  Val Ser Thr
    1205                1210                1215

Phe Glu  Gln Tyr Gln Phe Leu  Tyr Asp Ile Ile Ala  Ser Thr Tyr
    1220                1225                1230

Pro Ala  Gln Asn Gly Gln Val  Lys Lys Asn Asn His  Gln Glu Asp
    1235                1240                1245

Lys Ile  Glu Phe Asp Asn Glu  Val Asp Lys Val Lys  Gln Asp Ala
    1250                1255                1260
```

```
Asn Cys  Val Asn Pro Leu Gly  Ala Thr Glu Lys Leu  Pro Glu Ala
    1265                1270                1275


Lys Glu  Gln Ala Thr Gly Ser  Glu Pro Thr Ser Gly  Thr Glu Gly
    1280                1285                1290


Pro Glu  His Ser Val Asn Gly  Pro Ala Ser Pro Ala  Leu Asn Gln
    1295                1300                1305


Gly Ser
    1310
```

<210> 1105
<211> 1310
<212> PRT
<213> Macaca fascicularis

<400> 1105

```
Met Thr Met Cys Leu Trp Leu Lys Leu Leu Ala Phe Val Phe Ala Phe
1               5                   10                  15


Leu Asp Thr Glu Val Phe Val Thr Gly Gln Gly Ser Thr Leu Ser Pro
            20                  25                  30


Thr Gly Arg Arg Thr Thr Lys Met Pro Ser Val Pro Leu Ser Ser Asp
        35                  40                  45


Pro Leu Pro Thr His Thr Thr Ala Phe Ser Pro Ala Ser Ile Ser Glu
    50                  55                  60


Arg Glu Asn Asp Phe Ser Glu Thr Thr Pro Ser Leu Ser Ser Asp Asn
65                  70                  75                  80


Thr Ser Thr Gln Val Ser Pro Asp Ser Leu Asp Asn Ala Ser Ala Phe
                85                  90                  95


Asn Thr Thr Gly Val Ser Ser Ala Leu Thr Pro His Leu Pro Thr His
            100                 105                 110
```

```
Ala Asp Ser Gln Thr Pro Ser Thr Gly Thr Asp Thr Gln Thr Pro Ser
        115                 120                 125

Gly Ser Ala Ala Asn Thr Thr Leu Ser Pro Thr Pro Arg Ser Asn Asp
    130                 135                 140

Ile Ser Asp Val Pro Gly Glu Arg Ser Thr Ala Ser Thr Phe Pro Thr
145                 150                 155                 160

Asp Pro Ile Ser Pro Leu Ala Thr Thr Leu Ile Pro Ala Arg Asn Ser
                165                 170                 175

Ser Ala Ala Leu Pro Ala Arg Thr Ser Asn Thr Thr Ile Thr Ala Asn
            180                 185                 190

Thr Ser Val Ser Tyr Leu Asn Ala Ser Glu Thr Thr Thr Pro Ser Pro
        195                 200                 205

Ser Gly Ser Thr Val Ile Ser Thr Pro Thr Ile Ala Thr Thr Thr Ser
    210                 215                 220

Lys Pro Thr Cys Ala Glu Lys Tyr Ala Thr Ile Pro Val Asp Tyr Leu
225                 230                 235                 240

Tyr Asn Asn Lys Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu
                245                 250                 255

Asn Val Glu Cys Thr Asn Asn Asn His Thr His Asn Ile Cys Thr Asn
            260                 265                 270

Asn Glu Val Leu Asn Leu Pro Glu Cys Lys Glu Met Asn Val Phe Val
        275                 280                 285

Ser His Asn Ser Cys Thr Asp Arg His Lys Glu Leu Lys Leu Asp Val
    290                 295                 300

Pro Pro Glu Val Glu Lys Phe Gln Leu Asp Asp Cys Thr Pro Asp Val
```

720
305 310 315 320

Glu Ala Asn Thr Thr Ile Cys Leu Lys Trp Lys Ile Ile Glu Thr Phe
325 330 335

Ala Cys Asp Lys Ser Lys Ile Thr Tyr Arg Phe Gln Cys Gly Asn Lys
340 345 350

Thr Tyr Asn Lys Glu Gly Ile Tyr Leu Glu Asn Leu Glu Pro Glu Tyr
355 360 365

Glu Tyr Lys Cys Asp Ser Glu Ile Leu Tyr Asn Asn His Lys Tyr Ile
370 375 380

Asn Ile Thr Lys Leu Ile Lys Thr Asp Phe Gly Ile Pro Gly Gln Pro
385 390 395 400

Gln Asn Val Val Cys Arg His Glu Asp Ala His Gln Gly Val Ile Thr
405 410 415

Trp Asn Pro Pro Gln Arg Ser Phe His Asn Phe Thr Leu Cys Tyr Val
420 425 430

Asn Lys Pro Ala Lys Lys Cys Leu Ile Leu Asp Lys His Leu Thr Thr
435 440 445

Tyr His Leu Gln Asn Leu Lys Pro Tyr Thr Asn Tyr Ser Leu Ser Leu
450 455 460

His Ala Tyr Ile Ile Ala Lys Val Gln Arg Asn Gly Thr Ala Ala Thr
465 470 475 480

Cys Asn Phe Thr Thr Glu Ser Ala Pro Pro Ser Gln Val Gln Asn Met
485 490 495

Ile Val Ser Thr Ser Asp Asn Ser Met His Val Lys Cys Glu Val Pro
500 505 510

```
Arg Asp Val Asn Gly Pro Thr Gly Leu Tyr His Leu Glu Val Glu Ala
        515                 520                 525

Gly Asn Thr Leu Val Arg Asn Leu Ser Gln Ser Lys Cys Asp Phe Ser
    530                 535                 540

Val Asn Asn Leu Gln Tyr Ser Thr Tyr Tyr Asn Leu Lys Ala Tyr Tyr
545                 550                 555                 560

His Asn Gly Lys Tyr Ser Gly Glu Pro Val Ile Leu Arg Glu Ser Thr
                565                 570                 575

Ser Tyr Asn Ser Lys Ala Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile
            580                 585                 590

Val Thr Ser Ile Ala Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu
        595                 600                 605

His Lys Lys Arg Ser Cys Asn Leu Asp Glu Gln Gln Glu Leu Val Glu
    610                 615                 620

Arg Asp Asp Glu Lys Gln Leu Met Asn Val Glu Pro Ile His Ala Asp
625                 630                 635                 640

Ile Leu Leu Glu Thr Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu
                645                 650                 655

Phe Leu Ala Glu Phe Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro
            660                 665                 670

Ile Lys Glu Ala Arg Lys Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val
        675                 680                 685

Asp Ile Leu Pro Tyr Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn
    690                 695                 700

Gly Asp Ala Gly Ser Asn Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe
```

```
                                                722
705                 710                 715                 720

Lys Glu Pro Arg Lys Tyr Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr
                725                 730                 735

Val Asp Asp Phe Trp Arg Met Ile Trp Glu Gln Lys Ala Thr Val Ile
            740                 745                 750

Val Met Val Thr Arg Cys Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu
        755                 760                 765

Tyr Trp Pro Ser Met Glu Glu Gly Thr Arg Ala Phe Gly Asp Ile Val
    770                 775                 780

Val Lys Ile Asn Gln His Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys
785                 790                 795                 800

Leu Asn Ile Val Asn Lys Lys Glu Lys Ala Thr Gly Arg Glu Val Thr
                805                 810                 815

His Ile Gln Phe Thr Ser Trp Pro Asp His Gly Val Pro Glu Asp Pro
            820                 825                 830

His Leu Leu Leu Lys Leu Arg Arg Arg Val Asn Ala Phe Ser Asn Phe
        835                 840                 845

Phe Ser Gly Pro Ile Val Val His Cys Ser Ala Gly Val Gly Arg Thr
    850                 855                 860

Gly Thr Tyr Ile Gly Ile Asp Ala Met Leu Glu Gly Leu Glu Ala Glu
865                 870                 875                 880

Asn Lys Val Asp Val Tyr Gly Tyr Val Val Lys Leu Arg Arg Gln Arg
                885                 890                 895

Cys Leu Met Val Gln Val Glu Ala Gln Tyr Ile Leu Ile His Gln Ala
            900                 905                 910
```

```
Leu Val Glu Tyr Asn Gln Phe Gly Glu Thr Glu Val Asn Leu Ser Glu
        915                 920                 925


Leu His Pro Tyr Leu His Asn Met Lys Lys Arg Asp Pro Pro Ser Glu
    930                 935                 940


Pro Ser Pro Leu Glu Ala Glu Phe Gln Arg Leu Pro Ser Tyr Arg Ser
945                 950                 955                 960


Trp Arg Thr Gln His Ile Gly Asn Gln Glu Glu Asn Lys Asn Lys Asn
                965                 970                 975


Arg Asn Ser Asn Val Ile Pro Tyr Asp Tyr Asn Arg Val Pro Leu Lys
            980                 985                 990


His Glu Leu Glu Met Ser Lys Glu  Ser Asp His Asp Ser  Asp Glu Ser
        995                 1000                1005


Ser Asp  Asp Asp Ser Asp Ser  Glu Glu Pro Ser Lys  Tyr Ile Asn
    1010                1015                1020


Ala Ser  Phe Ile Met Ser Tyr  Trp Lys Pro Glu Val  Met Ile Ala
    1025                1030                1035


Ala Gln  Gly Pro Leu Lys Glu  Thr Ile Gly Asp Phe  Trp Gln Met
    1040                1045                1050


Ile Phe  Gln Arg Lys Val Lys  Val Ile Val Met Leu  Thr Glu Leu
    1055                1060                1065


Lys His  Gly Asp Gln Glu Ile  Cys Ala Gln Tyr Trp  Gly Glu Gly
    1070                1075                1080


Lys Gln  Thr Tyr Gly Asp Ile  Glu Val Asp Met Lys  Asp Thr Asn
    1085                1090                1095


Lys Ser  Ser Thr Tyr Thr Leu  Arg Val Phe Glu Leu  Arg His Ser
```

```
    1100                1105                1110

Lys Arg  Lys Asp Ser Arg Thr  Val Tyr Gln Tyr Gln  Tyr Thr Asn
    1115                1120                1125

Trp Ser  Val Glu Gln Leu Pro  Ala Glu Pro Lys Glu  Leu Val Ser
    1130                1135                1140

Leu Ile  Gln Val Leu Lys Glu  Lys Leu Pro Gln Lys  Asn Phe Ser
    1145                1150                1155

Glu Gly  Asn Lys His His Lys  Ser Thr Pro Leu Leu  Ile His Cys
    1160                1165                1170

Arg Asp  Gly Ser Gln Gln Thr  Gly Ile Phe Cys Ala  Leu Leu Asn
    1175                1180                1185

Leu Leu  Glu Ser Ala Glu Thr  Glu Glu Val Val Asp  Ile Phe Gln
    1190                1195                1200

Val Val  Lys Ala Leu Arg Lys  Ala Arg Pro Gly Met  Val Ser Thr
    1205                1210                1215

Phe Glu  Gln Tyr Gln Phe Leu  Tyr Asp Ile Ile Ala  Ser Thr Tyr
    1220                1225                1230

Pro Ala  Gln Asn Gly Gln Val  Lys Lys Asn Asn His  Gln Glu Asp
    1235                1240                1245

Lys Ile  Glu Phe Asp Asn Glu  Val Asp Lys Val Lys  Gln Asp Ala
    1250                1255                1260

Asn Cys  Val Asn Pro Leu Gly  Ala Thr Glu Lys Leu  Pro Glu Ala
    1265                1270                1275

Lys Glu  Gln Ala Thr Gly Ser  Glu Pro Thr Ser Gly  Thr Glu Gly
    1280                1285                1290
```

```
Pro Glu  His Ser Val Asn Gly  Pro Ala Ser Pro Ala  Leu Asn Gln
    1295                 1300                 1305


Gly Ser
    1310


<210>  1106
<211>  552
<212>  PRT
<213>  Homo sapiens

<400>  1106

Gln Ser Pro Thr Pro Ser Pro Thr Gly Leu Thr Thr Ala Lys Met Pro
1               5                   10                  15


Ser Val Pro Leu Ser Ser Asp Pro Leu Pro Thr His Thr Thr Ala Phe
            20                  25                  30


Ser Pro Ala Ser Thr Phe Glu Arg Glu Asn Asp Phe Ser Glu Thr Thr
        35                  40                  45


Thr Ser Leu Ser Pro Asp Asn Thr Ser Thr Gln Val Ser Pro Asp Ser
    50                  55                  60


Leu Asp Asn Ala Ser Ala Phe Asn Thr Thr Gly Val Ser Ser Val Gln
65                  70                  75                  80


Thr Pro His Leu Pro Thr His Ala Asp Ser Gln Thr Pro Ser Ala Gly
                85                  90                  95


Thr Asp Thr Gln Thr Phe Ser Gly Ser Ala Ala Asn Ala Lys Leu Asn
            100                 105                 110


Pro Thr Pro Gly Ser Asn Ala Ile Ser Asp Val Pro Gly Glu Arg Ser
        115                 120                 125


Thr Ala Ser Thr Phe Pro Thr Asp Pro Val Ser Pro Leu Thr Thr Thr
    130                 135                 140
```

```
Leu Ser Leu Ala His His Ser Ser Ala Ala Leu Pro Ala Arg Thr Ser
145                 150                 155                 160

Asn Thr Thr Ile Thr Ala Asn Thr Ser Asp Ala Tyr Leu Asn Ala Ser
                165                 170                 175

Glu Thr Thr Thr Leu Ser Pro Ser Gly Ser Ala Val Ile Ser Thr Thr
            180                 185                 190

Thr Ile Ala Thr Thr Pro Ser Lys Pro Thr Cys Asp Glu Lys Tyr Ala
        195                 200                 205

Asn Ile Thr Val Asp Tyr Leu Tyr Asn Lys Glu Thr Lys Leu Phe Thr
    210                 215                 220

Ala Lys Leu Asn Val Asn Glu Asn Val Glu Cys Gly Asn Asn Thr Cys
225                 230                 235                 240

Thr Asn Asn Glu Val His Asn Leu Thr Glu Cys Lys Asn Ala Ser Val
                245                 250                 255

Ser Ile Ser His Asn Ser Cys Thr Ala Pro Asp Lys Thr Leu Ile Leu
            260                 265                 270

Asp Val Pro Pro Gly Val Glu Lys Phe Gln Leu His Asp Cys Thr Gln
        275                 280                 285

Val Glu Lys Ala Asp Thr Thr Ile Cys Leu Lys Trp Lys Asn Ile Glu
    290                 295                 300

Thr Phe Thr Cys Asp Thr Gln Asn Ile Thr Tyr Arg Phe Gln Cys Gly
305                 310                 315                 320

Asn Met Ile Phe Asp Asn Lys Glu Ile Lys Leu Glu Asn Leu Glu Pro
                325                 330                 335
```

```
Glu His Glu Tyr Lys Cys Asp Ser Glu Ile Leu Tyr Asn Asn His Lys
            340                 345                 350

Phe Thr Asn Ala Ser Lys Ile Ile Lys Thr Asp Phe Gly Ser Pro Gly
        355                 360                 365

Glu Pro Gln Ile Ile Phe Cys Arg Ser Glu Ala Ala His Gln Gly Val
    370                 375                 380

Ile Thr Trp Asn Pro Pro Gln Arg Ser Phe His Asn Phe Thr Leu Cys
385                 390                 395                 400

Tyr Ile Lys Glu Thr Glu Lys Asp Cys Leu Asn Leu Asp Lys Asn Leu
                405                 410                 415

Ile Lys Tyr Asp Leu Gln Asn Leu Lys Pro Tyr Thr Lys Tyr Val Leu
            420                 425                 430

Ser Leu His Ala Tyr Ile Ile Ala Lys Val Gln Arg Asn Gly Ser Ala
        435                 440                 445

Ala Met Cys His Phe Thr Thr Lys Ser Ala Pro Pro Ser Gln Val Trp
    450                 455                 460

Asn Met Thr Val Ser Met Thr Ser Asp Asn Ser Met His Val Lys Cys
465                 470                 475                 480

Arg Pro Pro Arg Asp Arg Asn Gly Pro His Glu Arg Tyr His Leu Glu
                485                 490                 495

Val Glu Ala Gly Asn Thr Leu Val Arg Asn Glu Ser His Lys Asn Cys
            500                 505                 510

Asp Phe Arg Val Lys Asp Leu Gln Tyr Ser Thr Asp Tyr Thr Phe Lys
        515                 520                 525

Ala Tyr Phe His Asn Gly Asp Tyr Pro Gly Glu Pro Phe Ile Leu His
    530                 535                 540
```

His Ser Thr Ser Tyr Asn Ser Lys
545 550

<210> 1107
<211> 391
<212> PRT
<213> Homo sapiens

<400> 1107

Gln Ser Pro Thr Pro Ser Pro Thr Asp Ala Tyr Leu Asn Ala Ser Glu
1 5 10 15

Thr Thr Thr Leu Ser Pro Ser Gly Ser Ala Val Ile Ser Thr Thr Thr
20 25 30

Ile Ala Thr Thr Pro Ser Lys Pro Thr Cys Asp Glu Lys Tyr Ala Asn
35 40 45

Ile Thr Val Asp Tyr Leu Tyr Asn Lys Glu Thr Lys Leu Phe Thr Ala
50 55 60

Lys Leu Asn Val Asn Glu Asn Val Glu Cys Gly Asn Asn Thr Cys Thr
65 70 75 80

Asn Asn Glu Val His Asn Leu Thr Glu Cys Lys Asn Ala Ser Val Ser
85 90 95

Ile Ser His Asn Ser Cys Thr Ala Pro Asp Lys Thr Leu Ile Leu Asp
100 105 110

Val Pro Pro Gly Val Glu Lys Phe Gln Leu His Asp Cys Thr Gln Val
115 120 125

Glu Lys Ala Asp Thr Thr Ile Cys Leu Lys Trp Lys Asn Ile Glu Thr
130 135 140

Phe Thr Cys Asp Thr Gln Asn Ile Thr Tyr Arg Phe Gln Cys Gly Asn

729

145 150 155 160

Met Ile Phe Asp Asn Lys Glu Ile Lys Leu Glu Asn Leu Glu Pro Glu
165 170 175

His Glu Tyr Lys Cys Asp Ser Glu Ile Leu Tyr Asn Asn His Lys Phe
180 185 190

Thr Asn Ala Ser Lys Ile Ile Lys Thr Asp Phe Gly Ser Pro Gly Glu
195 200 205

Pro Gln Ile Ile Phe Cys Arg Ser Glu Ala Ala His Gln Gly Val Ile
210 215 220

Thr Trp Asn Pro Pro Gln Arg Ser Phe His Asn Phe Thr Leu Cys Tyr
225 230 235 240

Ile Lys Glu Thr Glu Lys Asp Cys Leu Asn Leu Asp Lys Asn Leu Ile
245 250 255

Lys Tyr Asp Leu Gln Asn Leu Lys Pro Tyr Thr Lys Tyr Val Leu Ser
260 265 270

Leu His Ala Tyr Ile Ile Ala Lys Val Gln Arg Asn Gly Ser Ala Ala
275 280 285

Met Cys His Phe Thr Thr Lys Ser Ala Pro Pro Ser Gln Val Trp Asn
290 295 300

Met Thr Val Ser Met Thr Ser Asp Asn Ser Met His Val Lys Cys Arg
305 310 315 320

Pro Pro Arg Asp Arg Asn Gly Pro His Glu Arg Tyr His Leu Glu Val
325 330 335

Glu Ala Gly Asn Thr Leu Val Arg Asn Glu Ser His Lys Asn Cys Asp
340 345 350

Phe Arg Val Lys Asp Leu Gln Tyr Ser Thr Asp Tyr Thr Phe Lys Ala
355 360 365

Tyr Phe His Asn Gly Asp Tyr Pro Gly Glu Pro Phe Ile Leu His His
370 375 380

Ser Thr Ser Tyr Asn Ser Lys
385 390

<210> 1108
<211> 457
<212> PRT
<213> Homo sapiens

<400> 1108

Gln Ser Pro Thr Pro Ser Pro Thr Gly Leu Thr Thr Ala Lys Met Pro
1 5 10 15

Ser Val Pro Leu Ser Ser Asp Pro Leu Pro Thr His Thr Thr Ala Phe
20 25 30

Ser Pro Ala Ser Thr Phe Glu Arg Glu Asn Asp Phe Ser Glu Thr Thr
35 40 45

Thr Ser Leu Ser Pro Asp Asn Thr Ser Thr Gln Val Ser Pro Asp Ser
50 55 60

Leu Asp Asn Ala Ser Ala Phe Asn Thr Thr Asp Ala Tyr Leu Asn Ala
65 70 75 80

Ser Glu Thr Thr Thr Leu Ser Pro Ser Gly Ser Ala Val Ile Ser Thr
85 90 95

Thr Thr Ile Ala Thr Thr Pro Ser Lys Pro Thr Cys Asp Glu Lys Tyr
100 105 110

Ala Asn Ile Thr Val Asp Tyr Leu Tyr Asn Lys Glu Thr Lys Leu Phe
115 120 125

```
Thr Ala Lys Leu Asn Val Asn Glu Asn Val Glu Cys Gly Asn Asn Thr
    130                 135                 140

Cys Thr Asn Asn Glu Val His Asn Leu Thr Glu Cys Lys Asn Ala Ser
145                 150                 155                 160

Val Ser Ile Ser His Asn Ser Cys Thr Ala Pro Asp Lys Thr Leu Ile
                165                 170                 175

Leu Asp Val Pro Pro Gly Val Glu Lys Phe Gln Leu His Asp Cys Thr
            180                 185                 190

Gln Val Glu Lys Ala Asp Thr Thr Ile Cys Leu Lys Trp Lys Asn Ile
        195                 200                 205

Glu Thr Phe Thr Cys Asp Thr Gln Asn Ile Thr Tyr Arg Phe Gln Cys
    210                 215                 220

Gly Asn Met Ile Phe Asp Asn Lys Glu Ile Lys Leu Glu Asn Leu Glu
225                 230                 235                 240

Pro Glu His Glu Tyr Lys Cys Asp Ser Glu Ile Leu Tyr Asn Asn His
                245                 250                 255

Lys Phe Thr Asn Ala Ser Lys Ile Ile Lys Thr Asp Phe Gly Ser Pro
            260                 265                 270

Gly Glu Pro Gln Ile Ile Phe Cys Arg Ser Glu Ala Ala His Gln Gly
        275                 280                 285

Val Ile Thr Trp Asn Pro Pro Gln Arg Ser Phe His Asn Phe Thr Leu
    290                 295                 300

Cys Tyr Ile Lys Glu Thr Glu Lys Asp Cys Leu Asn Leu Asp Lys Asn
305                 310                 315                 320
```

                                                    732
Leu Ile Lys Tyr Asp Leu Gln Asn Leu Lys Pro Tyr Thr Lys Tyr Val
                325                 330                 335

Leu Ser Leu His Ala Tyr Ile Ile Ala Lys Val Gln Arg Asn Gly Ser
            340                 345                 350

Ala Ala Met Cys His Phe Thr Thr Lys Ser Ala Pro Pro Ser Gln Val
        355                 360                 365

Trp Asn Met Thr Val Ser Met Thr Ser Asp Asn Ser Met His Val Lys
    370                 375                 380

Cys Arg Pro Pro Arg Asp Arg Asn Gly Pro His Glu Arg Tyr His Leu
385                 390                 395                 400

Glu Val Glu Ala Gly Asn Thr Leu Val Arg Asn Glu Ser His Lys Asn
                405                 410                 415

Cys Asp Phe Arg Val Lys Asp Leu Gln Tyr Ser Thr Asp Tyr Thr Phe
            420                 425                 430

Lys Ala Tyr Phe His Asn Gly Asp Tyr Pro Gly Glu Pro Phe Ile Leu
        435                 440                 445

His His Ser Thr Ser Tyr Asn Ser Lys
    450                 455

<210>  1109
<211>  438
<212>  PRT
<213>  Homo sapiens

<400>  1109

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

His Leu Pro Thr His Ala Asp Ser Gln Thr Pro Ser Ala Gly Thr Asp
            20                  25                  30

```
Thr Gln Thr Phe Ser Gly Ser Ala Ala Asn Ala Lys Leu Asn Pro Thr
        35                  40                  45

Pro Gly Ser Asn Ala Ile Ser Asp Ala Tyr Leu Asn Ala Ser Glu Thr
    50                  55                  60

Thr Thr Leu Ser Pro Ser Gly Ser Ala Val Ile Ser Thr Thr Thr Ile
65                  70                  75                  80

Ala Thr Thr Pro Ser Lys Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile
                85                  90                  95

Thr Val Asp Tyr Leu Tyr Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys
            100                 105                 110

Leu Asn Val Asn Glu Asn Val Glu Cys Gly Asn Asn Thr Cys Thr Asn
        115                 120                 125

Asn Glu Val His Asn Leu Thr Glu Cys Lys Asn Ala Ser Val Ser Ile
    130                 135                 140

Ser His Asn Ser Cys Thr Ala Pro Asp Lys Thr Leu Ile Leu Asp Val
145                 150                 155                 160

Pro Pro Gly Val Glu Lys Phe Gln Leu His Asp Cys Thr Gln Val Glu
                165                 170                 175

Lys Ala Asp Thr Thr Ile Cys Leu Lys Trp Lys Asn Ile Glu Thr Phe
            180                 185                 190

Thr Cys Asp Thr Gln Asn Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met
        195                 200                 205

Ile Phe Asp Asn Lys Glu Ile Lys Leu Glu Asn Leu Glu Pro Glu His
    210                 215                 220

Glu Tyr Lys Cys Asp Ser Glu Ile Leu Tyr Asn Asn His Lys Phe Thr
```

```
                                                734
225                 230                 235                 240

Asn Ala Ser Lys Ile Ile Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro
                245                 250                 255

Gln Ile Ile Phe Cys Arg Ser Glu Ala Ala His Gln Gly Val Ile Thr
            260                 265                 270

Trp Asn Pro Pro Gln Arg Ser Phe His Asn Phe Thr Leu Cys Tyr Ile
        275                 280                 285

Lys Glu Thr Glu Lys Asp Cys Leu Asn Leu Asp Lys Asn Leu Ile Lys
    290                 295                 300

Tyr Asp Leu Gln Asn Leu Lys Pro Tyr Thr Lys Tyr Val Leu Ser Leu
305                 310                 315                 320

His Ala Tyr Ile Ile Ala Lys Val Gln Arg Asn Gly Ser Ala Ala Met
                325                 330                 335

Cys His Phe Thr Thr Lys Ser Ala Pro Pro Ser Gln Val Trp Asn Met
            340                 345                 350

Thr Val Ser Met Thr Ser Asp Asn Ser Met His Val Lys Cys Arg Pro
        355                 360                 365

Pro Arg Asp Arg Asn Gly Pro His Glu Arg Tyr His Leu Glu Val Glu
    370                 375                 380

Ala Gly Asn Thr Leu Val Arg Asn Glu Ser His Lys Asn Cys Asp Phe
385                 390                 395                 400

Arg Val Lys Asp Leu Gln Tyr Ser Thr Asp Tyr Thr Phe Lys Ala Tyr
                405                 410                 415

Phe His Asn Gly Asp Tyr Pro Gly Glu Pro Phe Ile Leu His His Ser
            420                 425                 430
```

Thr Ser Tyr Asn Ser Lys
435

<210> 1110
<211> 504
<212> PRT
<213> Homo sapiens

<400> 1110

Gln Ser Pro Thr Pro Ser Pro Thr Gly Leu Thr Thr Ala Lys Met Pro
1 5 10 15

Ser Val Pro Leu Ser Ser Asp Pro Leu Pro Thr His Thr Thr Ala Phe
20 25 30

Ser Pro Ala Ser Thr Phe Glu Arg Glu Asn Asp Phe Ser Glu Thr Thr
35 40 45

Thr Ser Leu Ser Pro Asp Asn Thr Ser Thr Gln Val Ser Pro Asp Ser
50 55 60

Leu Asp Asn Ala Ser Ala Phe Asn Thr Thr Gly Val Ser Ser Val Gln
65 70 75 80

Thr Pro His Leu Pro Thr His Ala Asp Ser Gln Thr Pro Ser Ala Gly
85 90 95

Thr Asp Thr Gln Thr Phe Ser Gly Ser Ala Ala Asn Ala Lys Leu Asn
100 105 110

Pro Thr Pro Gly Ser Asn Ala Ile Ser Asp Ala Tyr Leu Asn Ala Ser
115 120 125

Glu Thr Thr Thr Leu Ser Pro Ser Gly Ser Ala Val Ile Ser Thr Thr
130 135 140

Thr Ile Ala Thr Thr Pro Ser Lys Pro Thr Cys Asp Glu Lys Tyr Ala
145 150 155 160

```
Asn Ile Thr Val Asp Tyr Leu Tyr Asn Lys Glu Thr Lys Leu Phe Thr
                165                 170                 175

Ala Lys Leu Asn Val Asn Glu Asn Val Glu Cys Gly Asn Asn Thr Cys
            180                 185                 190

Thr Asn Asn Glu Val His Asn Leu Thr Glu Cys Lys Asn Ala Ser Val
        195                 200                 205

Ser Ile Ser His Asn Ser Cys Thr Ala Pro Asp Lys Thr Leu Ile Leu
    210                 215                 220

Asp Val Pro Pro Gly Val Glu Lys Phe Gln Leu His Asp Cys Thr Gln
225                 230                 235                 240

Val Glu Lys Ala Asp Thr Thr Ile Cys Leu Lys Trp Lys Asn Ile Glu
                245                 250                 255

Thr Phe Thr Cys Asp Thr Gln Asn Ile Thr Tyr Arg Phe Gln Cys Gly
            260                 265                 270

Asn Met Ile Phe Asp Asn Lys Glu Ile Lys Leu Glu Asn Leu Glu Pro
        275                 280                 285

Glu His Glu Tyr Lys Cys Asp Ser Glu Ile Leu Tyr Asn Asn His Lys
    290                 295                 300

Phe Thr Asn Ala Ser Lys Ile Ile Lys Thr Asp Phe Gly Ser Pro Gly
305                 310                 315                 320

Glu Pro Gln Ile Ile Phe Cys Arg Ser Glu Ala Ala His Gln Gly Val
                325                 330                 335

Ile Thr Trp Asn Pro Pro Gln Arg Ser Phe His Asn Phe Thr Leu Cys
            340                 345                 350
```

737

Tyr Ile Lys Glu Thr Glu Lys Asp Cys Leu Asn Leu Asp Lys Asn Leu
355 360 365

Ile Lys Tyr Asp Leu Gln Asn Leu Lys Pro Tyr Thr Lys Tyr Val Leu
370 375 380

Ser Leu His Ala Tyr Ile Ile Ala Lys Val Gln Arg Asn Gly Ser Ala
385 390 395 400

Ala Met Cys His Phe Thr Thr Lys Ser Ala Pro Pro Ser Gln Val Trp
405 410 415

Asn Met Thr Val Ser Met Thr Ser Asp Asn Ser Met His Val Lys Cys
420 425 430

Arg Pro Pro Arg Asp Arg Asn Gly Pro His Glu Arg Tyr His Leu Glu
435 440 445

Val Glu Ala Gly Asn Thr Leu Val Arg Asn Glu Ser His Lys Asn Cys
450 455 460

Asp Phe Arg Val Lys Asp Leu Gln Tyr Ser Thr Asp Tyr Thr Phe Lys
465 470 475 480

Ala Tyr Phe His Asn Gly Asp Tyr Pro Gly Glu Pro Phe Ile Leu His
485 490 495

His Ser Thr Ser Tyr Asn Ser Lys
500

<210> 1111
<211> 505
<212> PRT
<213> Homo sapiens

<400> 1111

Gln Ser Pro Thr Pro Ser Pro Thr Gly Leu Thr Thr Ala Lys Met Pro
1 5 10 15

```
Ser Val Pro Leu Ser Ser Asp Pro Leu Pro Thr His Thr Thr Ala Phe
            20                  25                  30

Ser Pro Ala Ser Thr Phe Glu Arg Glu Asn Asp Phe Ser Glu Thr Thr
        35                  40                  45

Thr Ser Leu Ser Pro Asp Asn Thr Ser Thr Gln Val Ser Pro Asp Ser
    50                  55                  60

Leu Asp Asn Ala Ser Ala Phe Asn Thr Thr Asp Val Pro Gly Glu Arg
65                  70                  75                  80

Ser Thr Ala Ser Thr Phe Pro Thr Asp Pro Val Ser Pro Leu Thr Thr
                85                  90                  95

Thr Leu Ser Leu Ala His His Ser Ser Ala Ala Leu Pro Ala Arg Thr
            100                 105                 110

Ser Asn Thr Thr Ile Thr Ala Asn Thr Ser Asp Ala Tyr Leu Asn Ala
        115                 120                 125

Ser Glu Thr Thr Thr Leu Ser Pro Ser Gly Ser Ala Val Ile Ser Thr
    130                 135                 140

Thr Thr Ile Ala Thr Thr Pro Ser Lys Pro Thr Cys Asp Glu Lys Tyr
145                 150                 155                 160

Ala Asn Ile Thr Val Asp Tyr Leu Tyr Asn Lys Glu Thr Lys Leu Phe
                165                 170                 175

Thr Ala Lys Leu Asn Val Asn Glu Asn Val Glu Cys Gly Asn Asn Thr
            180                 185                 190

Cys Thr Asn Asn Glu Val His Asn Leu Thr Glu Cys Lys Asn Ala Ser
        195                 200                 205

Val Ser Ile Ser His Asn Ser Cys Thr Ala Pro Asp Lys Thr Leu Ile
```

210 215 220

Leu Asp Val Pro Pro Gly Val Glu Lys Phe Gln Leu His Asp Cys Thr
225 230 235 240

Gln Val Glu Lys Ala Asp Thr Thr Ile Cys Leu Lys Trp Lys Asn Ile
245 250 255

Glu Thr Phe Thr Cys Asp Thr Gln Asn Ile Thr Tyr Arg Phe Gln Cys
260 265 270

Gly Asn Met Ile Phe Asp Asn Lys Glu Ile Lys Leu Glu Asn Leu Glu
275 280 285

Pro Glu His Glu Tyr Lys Cys Asp Ser Glu Ile Leu Tyr Asn Asn His
290 295 300

Lys Phe Thr Asn Ala Ser Lys Ile Ile Lys Thr Asp Phe Gly Ser Pro
305 310 315 320

Gly Glu Pro Gln Ile Ile Phe Cys Arg Ser Glu Ala Ala His Gln Gly
325 330 335

Val Ile Thr Trp Asn Pro Pro Gln Arg Ser Phe His Asn Phe Thr Leu
340 345 350

Cys Tyr Ile Lys Glu Thr Glu Lys Asp Cys Leu Asn Leu Asp Lys Asn
355 360 365

Leu Ile Lys Tyr Asp Leu Gln Asn Leu Lys Pro Tyr Thr Lys Tyr Val
370 375 380

Leu Ser Leu His Ala Tyr Ile Ile Ala Lys Val Gln Arg Asn Gly Ser
385 390 395 400

Ala Ala Met Cys His Phe Thr Thr Lys Ser Ala Pro Pro Ser Gln Val
405 410 415

```
Trp Asn Met Thr Val Ser Met Thr Ser Asp Asn Ser Met His Val Lys
            420                 425                 430

Cys Arg Pro Pro Arg Asp Arg Asn Gly Pro His Glu Arg Tyr His Leu
        435                 440                 445

Glu Val Glu Ala Gly Asn Thr Leu Val Arg Asn Glu Ser His Lys Asn
    450                 455                 460

Cys Asp Phe Arg Val Lys Asp Leu Gln Tyr Ser Thr Asp Tyr Thr Phe
465                 470                 475                 480

Lys Ala Tyr Phe His Asn Gly Asp Tyr Pro Gly Glu Pro Phe Ile Leu
                485                 490                 495

His His Ser Thr Ser Tyr Asn Ser Lys
            500                 505
```

<210> 1112
<211> 486
<212> PRT
<213> Homo sapiens

<400> 1112

```
Gln Ser Pro Thr Pro Ser Pro Thr Gly Val Ser Ser Val Gln Thr Pro
1               5                   10                  15

His Leu Pro Thr His Ala Asp Ser Gln Thr Pro Ser Ala Gly Thr Asp
            20                  25                  30

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

Pro Gly Ser Asn Ala Ile Ser Asp Val Pro Gly Glu Arg Ser Thr Ala
    50                  55                  60

Ser Thr Phe Pro Thr Asp Pro Val Ser Pro Leu Thr Thr Thr Leu Ser
65                  70                  75                  80
```

```
Leu Ala His His Ser Ser Ala Ala Leu Pro Ala Arg Thr Ser Asn Thr
                85                  90                  95

Thr Ile Thr Ala Asn Thr Ser Asp Ala Tyr Leu Asn Ala Ser Glu Thr
            100                 105                 110

Thr Thr Leu Ser Pro Ser Gly Ser Ala Val Ile Ser Thr Thr Thr Ile
        115                 120                 125

Ala Thr Thr Pro Ser Lys Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile
    130                 135                 140

Thr Val Asp Tyr Leu Tyr Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys
145                 150                 155                 160

Leu Asn Val Asn Glu Asn Val Glu Cys Gly Asn Asn Thr Cys Thr Asn
                165                 170                 175

Asn Glu Val His Asn Leu Thr Glu Cys Lys Asn Ala Ser Val Ser Ile
            180                 185                 190

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

Pro Pro Gly Val Glu Lys Phe Gln Leu His Asp Cys Thr Gln Val Glu
    210                 215                 220

Lys Ala Asp Thr Thr Ile Cys Leu Lys Trp Lys Asn Ile Glu Thr Phe
225                 230                 235                 240

Thr Cys Asp Thr Gln Asn Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met
                245                 250                 255

Ile Phe Asp Asn Lys Glu Ile Lys Leu Glu Asn Leu Glu Pro Glu His
            260                 265                 270
```

```
Glu Tyr Lys Cys Asp Ser Glu Ile Leu Tyr Asn Asn His Lys Phe Thr
        275                 280                 285

Asn Ala Ser Lys Ile Ile Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro
    290                 295                 300

Gln Ile Ile Phe Cys Arg Ser Glu Ala Ala His Gln Gly Val Ile Thr
305                 310                 315                 320

Trp Asn Pro Pro Gln Arg Ser Phe His Asn Phe Thr Leu Cys Tyr Ile
                325                 330                 335

Lys Glu Thr Glu Lys Asp Cys Leu Asn Leu Asp Lys Asn Leu Ile Lys
            340                 345                 350

Tyr Asp Leu Gln Asn Leu Lys Pro Tyr Thr Lys Tyr Val Leu Ser Leu
        355                 360                 365

His Ala Tyr Ile Ile Ala Lys Val Gln Arg Asn Gly Ser Ala Ala Met
    370                 375                 380

Cys His Phe Thr Thr Lys Ser Ala Pro Pro Ser Gln Val Trp Asn Met
385                 390                 395                 400

Thr Val Ser Met Thr Ser Asp Asn Ser Met His Val Lys Cys Arg Pro
                405                 410                 415

Pro Arg Asp Arg Asn Gly Pro His Glu Arg Tyr His Leu Glu Val Glu
            420                 425                 430

Ala Gly Asn Thr Leu Val Arg Asn Glu Ser His Lys Asn Cys Asp Phe
        435                 440                 445

Arg Val Lys Asp Leu Gln Tyr Ser Thr Asp Tyr Thr Phe Lys Ala Tyr
    450                 455                 460

Phe His Asn Gly Asp Tyr Pro Gly Glu Pro Phe Ile Leu His His Ser
465                 470                 475                 480
```

Thr Ser Tyr Asn Ser Lys
485

<210> 1113
<211> 766
<212> PRT
<213> Homo sapiens

<400> 1113

Met Lys Thr Pro Trp Lys Val Leu Leu Gly Leu Leu Gly Ala Ala Ala
1 5 10 15

Leu Val Thr Ile Ile Thr Val Pro Val Val Leu Leu Asn Lys Gly Thr
20 25 30

Asp Asp Ala Thr Ala Asp Ser Arg Lys Thr Tyr Thr Leu Thr Asp Tyr
35 40 45

Leu Lys Asn Thr Tyr Arg Leu Lys Leu Tyr Ser Leu Arg Trp Ile Ser
50 55 60

Asp His Glu Tyr Leu Tyr Lys Gln Glu Asn Asn Ile Leu Val Phe Asn
65 70 75 80

Ala Glu Tyr Gly Asn Ser Ser Val Phe Leu Glu Asn Ser Thr Phe Asp
85 90 95

Glu Phe Gly His Ser Ile Asn Asp Tyr Ser Ile Ser Pro Asp Gly Gln
100 105 110

Phe Ile Leu Leu Glu Tyr Asn Tyr Val Lys Gln Trp Arg His Ser Tyr
115 120 125

Thr Ala Ser Tyr Asp Ile Tyr Asp Leu Asn Lys Arg Gln Leu Ile Thr
130 135 140

Glu Glu Arg Ile Pro Asn Asn Thr Gln Trp Val Thr Trp Ser Pro Val

145 150 155 160

Gly His Lys Leu Ala Tyr Val Trp Asn Asn Asp Ile Tyr Val Lys Ile
165 170 175

Glu Pro Asn Leu Pro Ser Tyr Arg Ile Thr Trp Thr Gly Lys Glu Asp
180 185 190

Ile Ile Tyr Asn Gly Ile Thr Asp Trp Val Tyr Glu Glu Glu Val Phe
195 200 205

Ser Ala Tyr Ser Ala Leu Trp Trp Ser Pro Asn Gly Thr Phe Leu Ala
210 215 220

Tyr Ala Gln Phe Asn Asp Thr Glu Val Pro Leu Ile Glu Tyr Ser Phe
225 230 235 240

Tyr Ser Asp Glu Ser Leu Gln Tyr Pro Lys Thr Val Arg Val Pro Tyr
245 250 255

Pro Lys Ala Gly Ala Val Asn Pro Thr Val Lys Phe Phe Val Val Asn
260 265 270

Thr Asp Ser Leu Ser Ser Val Thr Asn Ala Thr Ser Ile Gln Ile Thr
275 280 285

Ala Pro Ala Ser Met Leu Ile Gly Asp His Tyr Leu Cys Asp Val Thr
290 295 300

Trp Ala Thr Gln Glu Arg Ile Ser Leu Gln Trp Leu Arg Arg Ile Gln
305 310 315 320

Asn Tyr Ser Val Met Asp Ile Cys Asp Tyr Asp Glu Ser Ser Gly Arg
325 330 335

Trp Asn Cys Leu Val Ala Arg Gln His Ile Glu Met Ser Thr Thr Gly
340 345 350

```
Trp Val Gly Arg Phe Arg Pro Ser Glu Pro His Phe Thr Leu Asp Gly
        355                 360                 365

Asn Ser Phe Tyr Lys Ile Ile Ser Asn Glu Glu Gly Tyr Arg His Ile
    370                 375                 380

Cys Tyr Phe Gln Ile Asp Lys Lys Asp Cys Thr Phe Ile Thr Lys Gly
385                 390                 395                 400

Thr Trp Glu Val Ile Gly Ile Glu Ala Leu Thr Ser Asp Tyr Leu Tyr
                405                 410                 415

Tyr Ile Ser Asn Glu Tyr Lys Gly Met Pro Gly Gly Arg Asn Leu Tyr
            420                 425                 430

Lys Ile Gln Leu Ser Asp Tyr Thr Lys Val Thr Cys Leu Ser Cys Glu
        435                 440                 445

Leu Asn Pro Glu Arg Cys Gln Tyr Tyr Ser Val Ser Phe Ser Lys Glu
    450                 455                 460

Ala Lys Tyr Tyr Gln Leu Arg Cys Ser Gly Pro Gly Leu Pro Leu Tyr
465                 470                 475                 480

Thr Leu His Ser Ser Val Asn Asp Lys Gly Leu Arg Val Leu Glu Asp
                485                 490                 495

Asn Ser Ala Leu Asp Lys Met Leu Gln Asn Val Gln Met Pro Ser Lys
            500                 505                 510

Lys Leu Asp Phe Ile Ile Leu Asn Glu Thr Lys Phe Trp Tyr Gln Met
        515                 520                 525

Ile Leu Pro Pro His Phe Asp Lys Ser Lys Lys Tyr Pro Leu Leu Leu
    530                 535                 540

Asp Val Tyr Ala Gly Pro Cys Ser Gln Lys Ala Asp Thr Val Phe Arg
```

```
                                                746
545                 550                 555                 560

Leu Asn Trp Ala Thr Tyr Leu Ala Ser Thr Glu Asn Ile Ile Val Ala
                565                 570                 575

Ser Phe Asp Gly Arg Gly Ser Gly Tyr Gln Gly Asp Lys Ile Met His
            580                 585                 590

Ala Ile Asn Arg Arg Leu Gly Thr Phe Glu Val Glu Asp Gln Ile Glu
        595                 600                 605

Ala Ala Arg Gln Phe Ser Lys Met Gly Phe Val Asp Asn Lys Arg Ile
    610                 615                 620

Ala Ile Trp Gly Trp Ser Tyr Gly Gly Tyr Val Thr Ser Met Val Leu
625                 630                 635                 640

Gly Ser Gly Ser Gly Val Phe Lys Cys Gly Ile Ala Val Ala Pro Val
                645                 650                 655

Ser Arg Trp Glu Tyr Tyr Asp Ser Val Tyr Thr Glu Arg Tyr Met Gly
            660                 665                 670

Leu Pro Thr Pro Glu Asp Asn Leu Asp His Tyr Arg Asn Ser Thr Val
        675                 680                 685

Met Ser Arg Ala Glu Asn Phe Lys Gln Val Glu Tyr Leu Leu Ile His
    690                 695                 700

Gly Thr Ala Asp Asp Asn Val His Phe Gln Gln Ser Ala Gln Ile Ser
705                 710                 715                 720

Lys Ala Leu Val Asp Val Gly Val Asp Phe Gln Ala Met Trp Tyr Thr
                725                 730                 735

Asp Glu Asp His Gly Ile Ala Ser Ser Thr Ala His Gln His Ile Tyr
            740                 745                 750
```

```
Thr His Met Ser His Phe Ile Lys Gln Cys Phe Ser Leu Pro
        755                 760                 765


<210>  1114
<211>  595
<212>  PRT
<213>  Homo sapiens

<400>  1114

Met Arg Val Leu Leu Ala Ala Leu Gly Leu Leu Phe Leu Gly Ala Leu
1               5                   10                  15


Arg Ala Phe Pro Gln Asp Arg Pro Phe Glu Asp Thr Cys His Gly Asn
            20                  25                  30


Pro Ser His Tyr Tyr Asp Lys Ala Val Arg Arg Cys Cys Tyr Arg Cys
        35                  40                  45


Pro Met Gly Leu Phe Pro Thr Gln Gln Cys Pro Gln Arg Pro Thr Asp
    50                  55                  60


Cys Arg Lys Gln Cys Glu Pro Asp Tyr Tyr Leu Asp Glu Ala Asp Arg
65                  70                  75                  80


Cys Thr Ala Cys Val Thr Cys Ser Arg Asp Asp Leu Val Glu Lys Thr
                85                  90                  95


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


Phe Cys Ser Thr Ser Ala Val Asn Ser Cys Ala Arg Cys Phe Phe His
        115                 120                 125


Ser Val Cys Pro Ala Gly Met Ile Val Lys Phe Pro Gly Thr Ala Gln
    130                 135                 140


Lys Asn Thr Val Cys Glu Pro Ala Ser Pro Gly Val Ser Pro Ala Cys
145                 150                 155                 160
```

```
Ala Ser Pro Glu Asn Cys Lys Glu Pro Ser Ser Gly Thr Ile Pro Gln
                165                 170                 175

Ala Lys Pro Thr Pro Val Ser Pro Ala Thr Ser Ser Ala Ser Thr Met
            180                 185                 190

Pro Val Arg Gly Gly Thr Arg Leu Ala Gln Glu Ala Ala Ser Lys Leu
        195                 200                 205

Thr Arg Ala Pro Asp Ser Pro Ser Ser Val Gly Arg Pro Ser Ser Asp
    210                 215                 220

Pro Gly Leu Ser Pro Thr Gln Pro Cys Pro Glu Gly Ser Gly Asp Cys
225                 230                 235                 240

Arg Lys Gln Cys Glu Pro Asp Tyr Tyr Leu Asp Glu Ala Gly Arg Cys
                245                 250                 255

Thr Ala Cys Val Ser Cys Ser Arg Asp Asp Leu Val Glu Lys Thr Pro
            260                 265                 270

Cys Ala Trp Asn Ser Ser Arg Thr Cys Glu Cys Arg Pro Gly Met Ile
        275                 280                 285

Cys Ala Thr Ser Ala Thr Asn Ser Cys Ala Arg Cys Val Pro Tyr Pro
    290                 295                 300

Ile Cys Ala Ala Glu Thr Val Thr Lys Pro Gln Asp Met Ala Glu Lys
305                 310                 315                 320

Asp Thr Thr Phe Glu Ala Pro Pro Leu Gly Thr Gln Pro Asp Cys Asn
                325                 330                 335

Pro Thr Pro Glu Asn Gly Glu Ala Pro Ala Ser Thr Ser Pro Thr Gln
            340                 345                 350
```

```
Ser Leu Leu Val Asp Ser Gln Ala Ser Lys Thr Leu Pro Ile Pro Thr
        355                 360                 365

Ser Ala Pro Val Ala Leu Ser Ser Thr Gly Lys Pro Val Leu Asp Ala
    370                 375                 380

Gly Pro Val Leu Phe Trp Val Ile Leu Val Leu Val Val Val Val Gly
385                 390                 395                 400

Ser Ser Ala Phe Leu Leu Cys His Arg Arg Ala Cys Arg Lys Arg Ile
                405                 410                 415

Arg Gln Lys Leu His Leu Cys Tyr Pro Val Gln Thr Ser Gln Pro Lys
            420                 425                 430

Leu Glu Leu Val Asp Ser Arg Pro Arg Arg Ser Ser Thr Gln Leu Arg
        435                 440                 445

Ser Gly Ala Ser Val Thr Glu Pro Val Ala Glu Glu Arg Gly Leu Met
    450                 455                 460

Ser Gln Pro Leu Met Glu Thr Cys His Ser Val Gly Ala Ala Tyr Leu
465                 470                 475                 480

Glu Ser Leu Pro Leu Gln Asp Ala Ser Pro Ala Gly Gly Pro Ser Ser
                485                 490                 495

Pro Arg Asp Leu Pro Glu Pro Arg Val Ser Thr Glu His Thr Asn Asn
            500                 505                 510

Lys Ile Glu Lys Ile Tyr Ile Met Lys Ala Asp Thr Val Ile Val Gly
        515                 520                 525

Thr Val Lys Ala Glu Leu Pro Glu Gly Arg Gly Leu Ala Gly Pro Ala
    530                 535                 540

Glu Pro Glu Leu Glu Glu Glu Leu Glu Ala Asp His Thr Pro His Tyr
545                 550                 555                 560
```

Pro Glu Gln Glu Thr Glu Pro Pro Leu Gly Ser Cys Ser Asp Val Met
565 570 575

Leu Ser Val Glu Glu Glu Gly Lys Glu Asp Pro Leu Pro Thr Ala Ala
580 585 590

Ser Gly Lys
595

<210> 1115
<211> 364
<212> PRT
<213> Homo sapiens

<400> 1115

Met Pro Leu Leu Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala
1 5 10 15

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

Glu Gly Leu Cys Val Leu Val Pro Cys Thr Phe Phe His Pro Ile Pro
35 40 45

Tyr Tyr Asp Lys Asn Ser Pro Val His Gly Tyr Trp Phe Arg Glu Gly
50 55 60

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

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

Ser Arg Asn Asn Cys Ser Leu Ser Ile Val Asp Ala Arg Arg Arg Asp
100 105 110

Asn Gly Ser Tyr Phe Phe Arg Met Glu Arg Gly Ser Thr Lys Tyr Ser

115 120 125

Tyr Lys Ser Pro Gln Leu Ser Val His Val Thr Asp Leu Thr His Arg
130 135 140

Pro Lys Ile Leu Ile Pro Gly Thr Leu Glu Pro Gly His Ser Lys Asn
145 150 155 160

Leu Thr Cys Ser Val Ser Trp Ala Cys Glu Gln Gly Thr Pro Pro Ile
165 170 175

Phe Ser Trp Leu Ser Ala Ala Pro Thr Ser Leu Gly Pro Arg Thr Thr
180 185 190

His Ser Ser Val Leu Ile Ile Thr Pro Arg Pro Gln Asp His Gly Thr
195 200 205

Asn Leu Thr Cys Gln Val Lys Phe Ala Gly Ala Gly Val Thr Thr Glu
210 215 220

Arg Thr Ile Gln Leu Asn Val Thr Tyr Val Pro Gln Asn Pro Thr Thr
225 230 235 240

Gly Ile Phe Pro Gly Asp Gly Ser Gly Lys Gln Glu Thr Arg Ala Gly
245 250 255

Val Val His Gly Ala Ile Gly Gly Ala Gly Val Thr Ala Leu Leu Ala
260 265 270

Leu Cys Leu Cys Leu Ile Phe Phe Ile Val Lys Thr His Arg Arg Lys
275 280 285

Ala Ala Arg Thr Ala Val Gly Arg Asn Asp Thr His Pro Thr Thr Gly
290 295 300

Ser Ala Ser Pro Lys His Gln Lys Lys Ser Lys Leu His Gly Pro Thr
305 310 315 320

Glu Thr Ser Ser Cys Ser Gly Ala Ala Pro Thr Val Glu Met Asp Glu
325 330 335

Glu Leu His Tyr Ala Ser Leu Asn Phe His Gly Met Asn Pro Ser Lys
340 345 350

Asp Thr Ser Thr Glu Tyr Ser Glu Val Arg Thr Gln
355 360

<210> 1116
<211> 300
<212> PRT
<213> Homo sapiens

<400> 1116

Met Ala Asn Cys Glu Phe Ser Pro Val Ser Gly Asp Lys Pro Cys Cys
1 5 10 15

Arg Leu Ser Arg Arg Ala Gln Leu Cys Leu Gly Val Ser Ile Leu Val
20 25 30

Leu Ile Leu Val Val Val Leu Ala Val Val Val Pro Arg Trp Arg Gln
35 40 45

Gln Trp Ser Gly Pro Gly Thr Thr Lys Arg Phe Pro Glu Thr Val Leu
50 55 60

Ala Arg Cys Val Lys Tyr Thr Glu Ile His Pro Glu Met Arg His Val
65 70 75 80

Asp Cys Gln Ser Val Trp Asp Ala Phe Lys Gly Ala Phe Ile Ser Lys
85 90 95

His Pro Cys Asn Ile Thr Glu Glu Asp Tyr Gln Pro Leu Met Lys Leu
100 105 110

Gly Thr Gln Thr Val Pro Cys Asn Lys Ile Leu Leu Trp Ser Arg Ile
115 120 125

```
Lys Asp Leu Ala His Gln Phe Thr Gln Val Gln Arg Asp Met Phe Thr
    130                 135                 140

Leu Glu Asp Thr Leu Leu Gly Tyr Leu Ala Asp Asp Leu Thr Trp Cys
145                 150                 155                 160

Gly Glu Phe Asn Thr Ser Lys Ile Asn Tyr Gln Ser Cys Pro Asp Trp
                165                 170                 175

Arg Lys Asp Cys Ser Asn Asn Pro Val Ser Val Phe Trp Lys Thr Val
            180                 185                 190

Ser Arg Arg Phe Ala Glu Ala Ala Cys Asp Val Val His Val Met Leu
        195                 200                 205

Asn Gly Ser Arg Ser Lys Ile Phe Asp Lys Asn Ser Thr Phe Gly Ser
    210                 215                 220

Val Glu Val His Asn Leu Gln Pro Glu Lys Val Gln Thr Leu Glu Ala
225                 230                 235                 240

Trp Val Ile His Gly Gly Arg Glu Asp Ser Arg Asp Leu Cys Gln Asp
                245                 250                 255

Pro Thr Ile Lys Glu Leu Glu Ser Ile Ile Ser Lys Arg Asn Ile Gln
            260                 265                 270

Phe Ser Cys Lys Asn Ile Tyr Arg Pro Asp Lys Phe Leu Gln Cys Val
        275                 280                 285

Lys Asn Pro Glu Asp Ser Ser Cys Thr Ser Glu Ile
    290                 295                 300
```

<210> 1117
<211> 229
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  1117

```
Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys
1               5                   10                  15


Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
            20                  25                  30


Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
        35                  40                  45


Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
    50                  55                  60


Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
65                  70                  75                  80


Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
                85                  90                  95


Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
            100                 105                 110


Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
        115                 120                 125


Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro
    130                 135                 140


Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
145                 150                 155                 160


Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
                165                 170                 175
```

755

Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
180 185 190

Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
195 200 205

Glu Val Cys Phe Ala Glu Glu Gly Pro Lys Leu Ile Ser Lys Thr Arg
210 215 220

Ala Ala Leu Gly Val
225

<210> 1118
<211> 204
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1118

Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys
1 5 10 15

Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys
20 25 30

Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys
35 40 45

Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu
50 55 60

Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys
65 70 75 80

Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys
85 90 95

Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val
100 105 110

Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe
115 120 125

His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys
130 135 140

Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu
145 150 155 160

Glu Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys
165 170 175

Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln
180 185 190

Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val
195 200

<210> 1119
<211> 204
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1119

Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys
1 5 10 15

Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys
20 25 30

Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys
35 40 45

Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu
50 55 60

Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys
65 70 75 80

Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys
85 90 95

Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val
100 105 110

Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe
115 120 125

His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys
130 135 140

Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu
145 150 155 160

Glu Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys
165 170 175

Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Pro
180 185 190

Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val
195 200

<210> 1120
<211> 207
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1120

Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu
1 5 10 15

Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala
20 25 30

Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile
35 40 45

Thr Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu
50 55 60

Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly
65 70 75 80

His Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly
85 90 95

Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser
100 105 110

Leu Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys
115 120 125

Phe Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln
130 135 140

Thr Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln
145 150 155 160

Ile Thr Glu Glu Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu
165 170 175

Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu
180 185 190

Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val
195 200 205

<210> 1121
<211> 207
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1121

Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu
1 5 10 15

Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala
20 25 30

Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile
35 40 45

Thr Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu
50 55 60

Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly
65 70 75 80

His Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly
85 90 95

Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser
100 105 110

Leu Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys
115 120 125

Phe Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln
130 135 140

Thr Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln
145 150 155 160

```
Ile Thr Glu Glu Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu
                165                 170                 175


Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu
            180                 185                 190


Glu Gly Pro Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val
        195                 200                 205


<210>  1122
<211>  213
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1122

Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
1               5                   10                  15


Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
            20                  25                  30


Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
        35                  40                  45


Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
    50                  55                  60


Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
65                  70                  75                  80


Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
                85                  90                  95


Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
            100                 105                 110
```

Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro
        115                 120                 125

Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
    130                 135                 140

Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
145                 150                 155                 160

Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
                165                 170                 175

Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
            180                 185                 190

Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg
        195                 200                 205

Ala Ala Leu Gly Val
    210

<210>  1123
<211>  213
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1123

Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
1               5                   10                  15

Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
            20                  25                  30

Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
        35                  40                  45

```
Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
    50                  55                  60

Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
65                  70                  75                  80

Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
                85                  90                  95

Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
            100                 105                 110

Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro
        115                 120                 125

Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
    130                 135                 140

Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
145                 150                 155                 160

Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
                165                 170                 175

Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
            180                 185                 190

Glu Val Cys Phe Ala Glu Glu Gly Pro Lys Leu Ile Ser Lys Thr Arg
        195                 200                 205

Ala Ala Leu Gly Val
    210
```

<210>  1124
<211>  350
<212>  PRT
<213>  Artificial sequence

<220>
<223> artificial construct

<400> 1124

```
Asp Glu Gly Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Trp Ala
1               5                   10                  15


Arg Leu Gly Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu
            20                  25                  30


Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu
        35                  40                  45


Leu Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg
    50                  55                  60


Tyr Thr Ala Gly Thr Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn
65                  70                  75                  80


Gly Gly Gly Gly Asp Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
                85                  90                  95


Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys
            100                 105                 110


Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
        115                 120                 125


Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
    130                 135                 140


Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
145                 150                 155                 160


Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
                165                 170                 175
```

```
Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
            180                 185                 190

Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
        195                 200                 205

Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
    210                 215                 220

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

Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
                245                 250                 255

Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
            260                 265                 270

Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
        275                 280                 285

Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
    290                 295                 300

Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg
305                 310                 315                 320

Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
                325                 330                 335

Gly Gly Gly Ser His His His His His His His His His His
            340                 345                 350
```

<210>  1125
<211>  345
<212>  PRT
<213>  Artificial sequence

<220>

<223> artificial construct

<400> 1125

Asp Glu Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile
1 5 10 15

Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala
20 25 30

Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys
35 40 45

Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr
50 55 60

Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Asp
65 70 75 80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe
85 90 95

Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu
100 105 110

Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly
115 120 125

Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val
130 135 140

Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala
145 150 155 160

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

Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile
180 185 190

```
Gly His Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val
        195                 200                 205

Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser
    210                 215                 220

Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp
225                 230                 235                 240

Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu
                245                 250                 255

Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro
            260                 265                 270

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

Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala
    290                 295                 300

Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val
305                 310                 315                 320

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser His
                325                 330                 335

His His His His His His His His His
            340                 345
```

<210> 1126
<211> 320
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1126

```
Asp Glu Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile
1               5                  10                  15

Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala
            20                  25                  30

Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys
        35                  40                  45

Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr
    50                  55                  60

Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Asp
65                  70                  75                  80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gln Glu Ser Gln Ala
                85                  90                  95

Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr
            100                 105                 110

Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu
        115                 120                 125

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

Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu
145                 150                 155                 160

Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met
                165                 170                 175

Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala
            180                 185                 190
```

```
Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val
        195                 200                 205

Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys
    210                 215                 220

Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile
225                 230                 235                 240

Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala
                245                 250                 255

Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln
            260                 265                 270

Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys
        275                 280                 285

Thr Arg Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly
    290                 295                 300

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
305                 310                 315                 320
```

<210>  1127
<211>  323
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1127

```
Asp Glu Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile
1               5                   10                  15

Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala
            20                  25                  30
```

```
Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys
        35                  40                  45

Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr
    50                  55                  60

Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Asp
65                  70                  75                  80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Lys Tyr Ile Gln Glu
                85                  90                  95

Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly
            100                 105                 110

Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala
        115                 120                 125

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

Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala
145                 150                 155                 160

Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg
                165                 170                 175

His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser
            180                 185                 190

Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu
        195                 200                 205

Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys
    210                 215                 220

Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu
225                 230                 235                 240
```

```
Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln
                245                 250                 255

Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys
            260                 265                 270

Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu
        275                 280                 285

Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly
    290                 295                 300

Gly Gly Gly Ser Gly Gly Gly Gly Ser His His His His His His His
305                 310                 315                 320

His His His
```

<210> 1128
<211> 329
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1128

```
Asp Glu Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile
1               5                   10                  15

Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala
            20                  25                  30

Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys
        35                  40                  45

Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr
    50                  55                  60
```

```
Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Asp
65                  70                  75                  80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Glu Glu Glu Leu
                85                  90                  95

Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly
            100                 105                 110

Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val
        115                 120                 125

Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala
    130                 135                 140

Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser
145                 150                 155                 160

Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile
                165                 170                 175

Gly His Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val
            180                 185                 190

Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser
        195                 200                 205

Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp
    210                 215                 220

Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu
225                 230                 235                 240

Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro
                245                 250                 255
```

```
Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly
            260                 265                 270

Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala
        275                 280                 285

Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val
    290                 295                 300

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser His
305                 310                 315                 320

His His His His His His His His His
                325
```

<210> 1129
<211> 438
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1129

```
Asp Glu Gly Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Trp Ala
1               5                   10                  15

Arg Leu Gly Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu
            20                  25                  30

Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu
        35                  40                  45

Leu Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg
    50                  55                  60

Tyr Thr Ala Gly Thr Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn
65                  70                  75                  80
```

```
Gly Gly Gly Gly Asp Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
                85                  90                  95

Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys
            100                 105                 110

Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
        115                 120                 125

Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
    130                 135                 140

Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
145                 150                 155                 160

Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
                165                 170                 175

Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
            180                 185                 190

Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
        195                 200                 205

Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
    210                 215                 220

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

Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
                245                 250                 255

Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
            260                 265                 270

Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
        275                 280                 285
```

```
Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
    290                 295                 300

Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg
305                 310                 315                 320

Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
                325                 330                 335

Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly
            340                 345                 350

Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu
        355                 360                 365

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
    370                 375                 380

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala
385                 390                 395                 400

Gly Thr Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
                405                 410                 415

Gly Asp Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser His His His His
            420                 425                 430

His His His His His His
        435
```

<210> 1130
<211> 408
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1130

```
Asp Glu Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile
1               5                  10                  15

Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala
            20                  25                  30

Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys
        35                  40                  45

Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr
    50                  55                  60

Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Asp
65                  70                  75                  80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gln Glu Ser Gln Ala
                85                  90                  95

Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr
            100                 105                 110

Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu
        115                 120                 125

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

Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu
145                 150                 155                 160

Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met
                165                 170                 175

Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala
            180                 185                 190
```

```
Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val
        195                 200                 205

Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys
    210                 215                 220

Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile
225                 230                 235                 240

Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala
                245                 250                 255

Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln
            260                 265                 270

Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Pro Lys Leu Ile Ser Lys
        275                 280                 285

Thr Arg Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly
    290                 295                 300

Ser Gly Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Trp Ala Arg
305                 310                 315                 320

Leu Gly Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala
                325                 330                 335

Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu
            340                 345                 350

Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr
        355                 360                 365

Thr Ala Gly Thr Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly
    370                 375                 380

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser His His
385                 390                 395                 400
```

His His His His His His His His
405

<210> 1131
<211> 320
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1131

Asp Glu Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile
1 5 10 15

Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala
20 25 30

Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys
35 40 45

Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr
50 55 60

Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Asp
65 70 75 80

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gln Glu Ser Gln Ala
85 90 95

Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr
100 105 110

Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu
115 120 125

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

```
Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu
145                 150                 155                 160

Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met
                165                 170                 175

Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala
            180                 185                 190

Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val
        195                 200                 205

Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys
    210                 215                 220

Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile
225                 230                 235                 240

Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala
                245                 250                 255

Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln
            260                 265                 270

Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Pro Lys Leu Ile Ser Lys
        275                 280                 285

Thr Arg Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly
    290                 295                 300

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
305                 310                 315                 320
```

<210> 1132
<211> 408
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  1132

```
Asp Glu Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile
1               5                  10                  15


Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala
            20                  25                  30


Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys
        35                  40                  45


Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr
    50                  55                  60


Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Asp
65                  70                  75                  80


Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gln Glu Ser Gln Ala
                85                  90                  95


Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr
            100                 105                 110


Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu
        115                 120                 125


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


Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu
145                 150                 155                 160


Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met
                165                 170                 175
```

```
                                        780
Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala
            180                 185                 190

Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val
        195                 200                 205

Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys
    210                 215                 220

Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile
225                 230                 235                 240

Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala
                245                 250                 255

Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln
            260                 265                 270

Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys
        275                 280                 285

Thr Arg Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly
    290                 295                 300

Ser Gly Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Trp Ala Arg
305                 310                 315                 320

Leu Gly Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala
                325                 330                 335

Glu Leu Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu
            340                 345                 350

Gln Ala Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr
        355                 360                 365

Thr Ala Gly Thr Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly
    370                 375                 380
```

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser His His
385 390 395 400

His His His His His His His His
405

<210> 1133
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1133

Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1 5 10 15

Phe Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Gly
20 25 30

Gly Gly Gly Ser Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn
35 40 45

Ala Ile Asp Ala Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu
50 55 60

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
65 70 75 80

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Ser Leu Arg Val His Ala
85 90 95

Ala Ala Ile Arg Glu Trp Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
115 120 125

```
Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
    130                 135                 140

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
145                 150                 155                 160

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
                165                 170                 175

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
            180                 185                 190

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
        195                 200                 205

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
    210                 215                 220

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
225                 230                 235                 240

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
                245                 250                 255

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
            260                 265                 270

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
        275                 280                 285

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
    290                 295                 300

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
305                 310                 315                 320
```

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
325 330 335

Met Gln Ala Leu Pro Pro Arg
340

<210> 1134
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1134

Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1 5 10 15

Phe Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Gly
20 25 30

Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Asn
35 40 45

Ala Ile Asp Ala Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu
50 55 60

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
65 70 75 80

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Ser Leu Arg Val His Ala
85 90 95

Ala Ala Ile Arg Glu Trp Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
115 120 125

```
Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
    130                 135                 140

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
145                 150                 155                 160

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
                165                 170                 175

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
            180                 185                 190

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
        195                 200                 205

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
    210                 215                 220

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
225                 230                 235                 240

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
                245                 250                 255

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
            260                 265                 270

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
        275                 280                 285

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
    290                 295                 300

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
305                 310                 315                 320

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
                325                 330                 335
```

Met Gln Ala Leu Pro Pro Arg
340

<210> 1135
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1135

Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1 5 10 15

Phe Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Gly
20 25 30

Gly Gly Gly Ser Met Gly Ser Trp Phe Glu Phe Tyr Asp Arg Leu Asn
35 40 45

Ala Ile Asp Ala Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu
50 55 60

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
65 70 75 80

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala
85 90 95

Ala Ala Ile Arg Glu Trp Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
115 120 125

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
130 135 140

```
Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
145                 150                 155                 160

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
                165                 170                 175

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
            180                 185                 190

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
        195                 200                 205

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
    210                 215                 220

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
225                 230                 235                 240

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
                245                 250                 255

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
            260                 265                 270

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
        275                 280                 285

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
    290                 295                 300

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
305                 310                 315                 320

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
                325                 330                 335
```

Met Gln Ala Leu Pro Pro Arg
340

<210> 1136
<211> 343
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1136

Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1 5 10 15

Phe Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Gly Ser Gly
20 25 30

Gly Gly Gly Ser Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Asn
35 40 45

Ala Ile Asp Ala Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu
50 55 60

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
65 70 75 80

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala
85 90 95

Ala Ala Ile Arg Glu Trp Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
115 120 125

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
130 135 140

```
Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
145                 150                 155                 160

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
                165                 170                 175

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
            180                 185                 190

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
        195                 200                 205

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
    210                 215                 220

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
225                 230                 235                 240

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
                245                 250                 255

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
            260                 265                 270

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
        275                 280                 285

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
    290                 295                 300

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
305                 310                 315                 320

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
                325                 330                 335

Met Gln Ala Leu Pro Pro Arg
            340
```

<210> 1137
<211> 22
<212> PRT
<213> Homo sapiens

<400> 1137

Met Ala Gly Ser Pro Thr Cys Leu Thr Leu Ile Tyr Ile Leu Trp Gln
1 5 10 15

Leu Thr Gly Ser Ala Ala
20

<210> 1138
<211> 226
<212> PRT
<213> Homo sapiens

<400> 1138

Met Ala Gly Ser Pro Thr Cys Leu Thr Leu Ile Tyr Ile Leu Trp Gln
1 5 10 15

Leu Thr Gly Ser Ala Ala Ser Gly Pro Val Lys Glu Leu Val Gly Ser
20 25 30

Val Gly Gly Ala Val Thr Phe Pro Leu Lys Ser Lys Val Lys Gln Val
35 40 45

Asp Ser Ile Val Trp Thr Phe Asn Thr Thr Pro Leu Val Thr Ile Gln
50 55 60

Pro Glu Gly Gly Thr Ile Ile Val Thr Gln Asn Arg Asn Arg Glu Arg
65 70 75 80

Val Asp Phe Pro Asp Gly Gly Tyr Ser Leu Lys Leu Ser Lys Leu Lys
85 90 95

Lys Asn Asp Ser Gly Ile Tyr Tyr Val Gly Ile Tyr Ser Ser Ser Leu
100 105 110

```
Gln Gln Pro Ser Thr Gln Glu Tyr Val Leu His Val Tyr Glu His Leu
        115                 120                 125


Ser Lys Pro Lys Val Thr Met Gly Leu Gln Ser Asn Lys Asn Gly Thr
    130                 135                 140


Cys Val Thr Asn Leu Thr Cys Cys Met Glu His Gly Glu Glu Asp Val
145                 150                 155                 160


Ile Tyr Thr Trp Lys Ala Leu Gly Gln Ala Ala Asn Glu Ser His Asn
                165                 170                 175


Gly Ser Ile Leu Pro Ile Ser Trp Arg Trp Gly Glu Ser Asp Met Thr
            180                 185                 190


Phe Ile Cys Val Ala Arg Asn Pro Val Ser Arg Asn Phe Ser Ser Pro
        195                 200                 205


Ile Leu Ala Arg Lys Leu Cys Glu Gly Ala Ala Asp Asp Pro Asp Ser
    210                 215                 220


Ser Met
225


<210>  1139
<211>  335
<212>  PRT
<213>  Homo sapiens

<400>  1139

Met Ala Gly Ser Pro Thr Cys Leu Thr Leu Ile Tyr Ile Leu Trp Gln
1               5                   10                  15


Leu Thr Gly Ser Ala Ala Ser Gly Pro Val Lys Glu Leu Val Gly Ser
            20                  25                  30


Val Gly Gly Ala Val Thr Phe Pro Leu Lys Ser Lys Val Lys Gln Val
```

35 40 45

Asp Ser Ile Val Trp Thr Phe Asn Thr Thr Pro Leu Val Thr Ile Gln
50 55 60

Pro Glu Gly Gly Thr Ile Ile Val Thr Gln Asn Arg Asn Arg Glu Arg
65 70 75 80

Val Asp Phe Pro Asp Gly Gly Tyr Ser Leu Lys Leu Ser Lys Leu Lys
85 90 95

Lys Asn Asp Ser Gly Ile Tyr Tyr Val Gly Ile Tyr Ser Ser Ser Leu
100 105 110

Gln Gln Pro Ser Thr Gln Glu Tyr Val Leu His Val Tyr Glu His Leu
115 120 125

Ser Lys Pro Lys Val Thr Met Gly Leu Gln Ser Asn Lys Asn Gly Thr
130 135 140

Cys Val Thr Asn Leu Thr Cys Cys Met Glu His Gly Glu Glu Asp Val
145 150 155 160

Ile Tyr Thr Trp Lys Ala Leu Gly Gln Ala Ala Asn Glu Ser His Asn
165 170 175

Gly Ser Ile Leu Pro Ile Ser Trp Arg Trp Gly Glu Ser Asp Met Thr
180 185 190

Phe Ile Cys Val Ala Arg Asn Pro Val Ser Arg Asn Phe Ser Ser Pro
195 200 205

Ile Leu Ala Arg Lys Leu Cys Glu Gly Ala Ala Asp Asp Pro Asp Ser
210 215 220

Ser Met Val Leu Leu Cys Leu Leu Leu Val Pro Leu Leu Leu Ser Leu
225 230 235 240

Phe Val Leu Gly Leu Phe Leu Trp Phe Leu Lys Arg Glu Arg Gln Glu
245 250 255

Glu Tyr Ile Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu Thr Pro
260 265 270

Asn Ile Cys Pro His Ser Gly Glu Asn Thr Glu Tyr Asp Thr Ile Pro
275 280 285

His Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr
290 295 300

Ser Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu
305 310 315 320

Thr Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile
325 330 335

<210> 1140
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial construct

<220>
<221> misc_feature
<222> (1)..(5)
<223> Xaa can be any naturally occurring amino acid

<400> 1140

Xaa Xaa Xaa Xaa Xaa
1 5

<210> 1141
<211> 491
<212> PRT
<213> Artificial sequence

<220>
<223>  artificial construct

<400>  1141

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


Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser Arg Tyr
            20                  25                  30


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


Gly Glu Ile Asn Pro Thr Ser Ser Thr Ile Asn Phe Thr Pro Ser Leu
    50                  55                  60


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


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


Ala Arg Gly Asn Tyr Tyr Arg Tyr Gly Asp Ala Met Asp Tyr Trp Gly
            100                 105                 110


Gln Gly Thr Ser Val Thr Val Ser Gly Gly Gly Gly Ser Gly Gly Gly
        115                 120                 125


Gly Ser Ala Gly Gly Gly Ser Asp Ile Val Leu Thr Gln Ser Pro Ala
    130                 135                 140


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


Ser Lys Ser Val Ser Thr Ser Gly Tyr Ser Tyr Leu His Trp Tyr Gln
                165                 170                 175


Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn
```

180 185 190

Leu Glu Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr
195 200 205

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

Tyr Tyr Cys Gln His Ser Arg Glu Leu Pro Phe Thr Phe Gly Ser Gly
225 230 235 240

Thr Lys Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
245 250 255

Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro
260 265 270

Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln
275 280 285

Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu
290 295 300

Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys
305 310 315 320

Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met
325 330 335

Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu
340 345 350

Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile
355 360 365

Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr
370 375 380

Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp
385 390 395 400

Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His
405 410 415

Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln
420 425 430

Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu
435 440 445

Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys
450 455 460

Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys
465 470 475 480

Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val
485 490

<210> 1142
<211> 491
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1142

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

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
20 25 30

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

```
Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
    50                  55                  60

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

Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His Ser Arg
                85                  90                  95

Glu Leu Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Gly
            100                 105                 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gly Gly Gly Ser Gln Val
        115                 120                 125

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
    130                 135                 140

Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser Arg Tyr Trp Met
145                 150                 155                 160

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Glu
                165                 170                 175

Ile Asn Pro Thr Ser Ser Thr Ile Asn Phe Thr Pro Ser Leu Lys Asp
            180                 185                 190

Lys Val Phe Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
        195                 200                 205

Met Ser Lys Val Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg
    210                 215                 220

Gly Asn Tyr Tyr Arg Tyr Gly Asp Ala Met Asp Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Ser Val Thr Val Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
```

```
                245                 250                 255

Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro
            260                 265                 270

Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln
        275                 280                 285

Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu
    290                 295                 300

Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys
305                 310                 315                 320

Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met
                325                 330                 335

Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu
            340                 345                 350

Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile
        355                 360                 365

Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr
    370                 375                 380

Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp
385                 390                 395                 400

Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His
                405                 410                 415

Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln
            420                 425                 430

Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu
        435                 440                 445
```

Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys
450 455 460

Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys
465 470 475 480

Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val
485 490

<210> 1143
<211> 491
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1143

Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys
1 5 10 15

Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
20 25 30

Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
35 40 45

Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
50 55 60

Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
65 70 75 80

Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
85 90 95

Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
100 105 110

```
Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
        115                 120                 125

Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro
    130                 135                 140

Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
145                 150                 155                 160

Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
                165                 170                 175

Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
            180                 185                 190

Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
        195                 200                 205

Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg
    210                 215                 220

Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
225                 230                 235                 240

Gly Gly Gly Ser Gly Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                245                 250                 255

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            260                 265                 270

Asp Phe Ser Arg Tyr Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys
        275                 280                 285

Gly Leu Glu Trp Ile Gly Glu Ile Asn Pro Thr Ser Ser Thr Ile Asn
    290                 295                 300

Phe Thr Pro Ser Leu Lys Asp Lys Val Phe Ile Ser Arg Asp Asn Ala
```

800
305 310 315 320

Lys Asn Thr Leu Tyr Leu Gln Met Ser Lys Val Arg Ser Glu Asp Thr
325 330 335

Ala Leu Tyr Tyr Cys Ala Arg Gly Asn Tyr Tyr Arg Tyr Gly Asp Ala
340 345 350

Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Gly Gly Gly
355 360 365

Gly Ser Gly Gly Gly Gly Ser Ala Gly Gly Gly Ser Asp Ile Val Leu
370 375 380

Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly Gln Arg Ala Thr
385 390 395 400

Ile Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser Gly Tyr Ser Tyr
405 410 415

Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
420 425 430

Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val Pro Ala Arg Phe Ser Gly
435 440 445

Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His Pro Val Glu Glu
450 455 460

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His Ser Arg Glu Leu Pro Phe
465 470 475 480

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
485 490

<210> 1144
<211> 491
<212> PRT

<213> Artificial sequence

<220>
<223> artificial construct

<400> 1144

```
Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys
1               5                  10                  15


Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala
            20                  25                  30


Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln
        35                  40                  45


Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser
    50                  55                  60


Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr
65                  70                  75                  80


Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala
                85                  90                  95


Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro
            100                 105                 110


Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg
        115                 120                 125


Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro
    130                 135                 140


Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala
145                 150                 155                 160


Gln Gly Val Ala Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu
                165                 170                 175
```

```
Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile
            180                 185                 190

Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln
        195                 200                 205

Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg
    210                 215                 220

Ala Ala Leu Gly Val Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
225                 230                 235                 240

Gly Gly Gly Ser Gly Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu
                245                 250                 255

Ala Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys
            260                 265                 270

Ser Val Ser Thr Ser Gly Tyr Ser Tyr Leu His Trp Tyr Gln Gln Lys
        275                 280                 285

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu
    290                 295                 300

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
305                 310                 315                 320

Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr
                325                 330                 335

Cys Gln His Ser Arg Glu Leu Pro Phe Thr Phe Gly Ser Gly Thr Lys
            340                 345                 350

Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gly
        355                 360                 365

Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
```

803
370 375 380

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe
385 390 395 400

Ser Arg Tyr Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
405 410 415

Glu Trp Ile Gly Glu Ile Asn Pro Thr Ser Ser Thr Ile Asn Phe Thr
420 425 430

Pro Ser Leu Lys Asp Lys Val Phe Ile Ser Arg Asp Asn Ala Lys Asn
435 440 445

Thr Leu Tyr Leu Gln Met Ser Lys Val Arg Ser Glu Asp Thr Ala Leu
450 455 460

Tyr Tyr Cys Ala Arg Gly Asn Tyr Tyr Arg Tyr Gly Asp Ala Met Asp
465 470 475 480

Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser
485 490

<210> 1145
<211> 753
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1145

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

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
20 25 30

Gly Tyr Ser Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro

```
        35                  40                  45

Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
    50                  55                  60

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

Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His Ser Arg
                85                  90                  95

Glu Leu Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Gly
            100                 105                 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gly Gly Gly Ser Gln Val
        115                 120                 125

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
    130                 135                 140

Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser Arg Tyr Trp Met
145                 150                 155                 160

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Glu
                165                 170                 175

Ile Asn Pro Thr Ser Ser Thr Ile Asn Phe Thr Pro Ser Leu Lys Asp
            180                 185                 190

Lys Val Phe Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
        195                 200                 205

Met Ser Lys Val Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg
    210                 215                 220

Gly Asn Tyr Tyr Arg Tyr Gly Asp Ala Met Asp Tyr Trp Gly Gln Gly
225                 230                 235                 240
```

```
Thr Ser Val Thr Val Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro
            260                 265                 270

Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln
        275                 280                 285

Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu
    290                 295                 300

Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys
305                 310                 315                 320

Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met
                325                 330                 335

Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu
            340                 345                 350

Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile
        355                 360                 365

Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr
    370                 375                 380

Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp
385                 390                 395                 400

Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His
                405                 410                 415

Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln
            420                 425                 430

Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu
```

435 440 445

Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys
450 455 460

Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys
465 470 475 480

Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly Gly Gly Ser
485 490 495

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Asp Ile Val Leu Thr
500 505 510

Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly Gln Arg Ala Thr Ile
515 520 525

Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser Gly Tyr Ser Tyr Leu
530 535 540

His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
545 550 555 560

Leu Ala Ser Asn Leu Glu Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
565 570 575

Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His Pro Val Glu Glu Glu
580 585 590

Asp Ala Ala Thr Tyr Tyr Cys Gln His Ser Arg Glu Leu Pro Phe Thr
595 600 605

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly
610 615 620

Gly Gly Gly Ser Ala Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser
625 630 635 640

```
Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
                645                 650                 655


Ala Ser Gly Phe Asp Phe Ser Arg Tyr Trp Met Ser Trp Val Arg Gln
            660                 665                 670


Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Glu Ile Asn Pro Thr Ser
        675                 680                 685


Ser Thr Ile Asn Phe Thr Pro Ser Leu Lys Asp Lys Val Phe Ile Ser
    690                 695                 700


Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Lys Val Arg
705                 710                 715                 720


Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Gly Asn Tyr Tyr Arg
                725                 730                 735


Tyr Gly Asp Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val
            740                 745                 750


Ser
```

<210>  1146
<211>  753
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1146

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


Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser Arg Tyr
            20                  25                  30
```

```
Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
        35                  40                  45

Gly Glu Ile Asn Pro Thr Ser Ser Thr Ile Asn Phe Thr Pro Ser Leu
    50                  55                  60

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

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

Ala Arg Gly Asn Tyr Tyr Arg Tyr Gly Asp Ala Met Asp Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Ser Val Thr Val Ser Gly Gly Gly Gly Ser Gly Gly Gly
        115                 120                 125

Gly Ser Ala Gly Gly Gly Ser Asp Ile Val Leu Thr Gln Ser Pro Ala
    130                 135                 140

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

Ser Lys Ser Val Ser Thr Ser Gly Tyr Ser Tyr Leu His Trp Tyr Gln
                165                 170                 175

Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn
            180                 185                 190

Leu Glu Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr
        195                 200                 205

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

Tyr Tyr Cys Gln His Ser Arg Glu Leu Pro Phe Thr Phe Gly Ser Gly
```

```
225                 230                 235                 240

Thr Lys Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro
            260                 265                 270

Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln
        275                 280                 285

Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu
    290                 295                 300

Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys
305                 310                 315                 320

Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met
                325                 330                 335

Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu
            340                 345                 350

Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile
        355                 360                 365

Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr
    370                 375                 380

Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp
385                 390                 395                 400

Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His
                405                 410                 415

Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln
            420                 425                 430
```

```
Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu
        435                 440                 445

Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys
    450                 455                 460

Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys
465                 470                 475                 480

Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly Gly Gly Ser
                485                 490                 495

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gln Val Gln Leu Val
            500                 505                 510

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        515                 520                 525

Cys Ala Ala Ser Gly Phe Asp Phe Ser Arg Tyr Trp Met Ser Trp Val
    530                 535                 540

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Glu Ile Asn Pro
545                 550                 555                 560

Thr Ser Ser Thr Ile Asn Phe Thr Pro Ser Leu Lys Asp Lys Val Phe
                565                 570                 575

Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Lys
            580                 585                 590

Val Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Gly Asn Tyr
        595                 600                 605

Tyr Arg Tyr Gly Asp Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val
    610                 615                 620

Thr Val Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gly Gly
```

811
625 630 635 640

Gly Ser Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser
645 650 655

Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys Ser Val Ser
660 665 670

Thr Ser Gly Tyr Ser Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln
675 680 685

Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val
690 695 700

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn
705 710 715 720

Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His
725 730 735

Ser Arg Glu Leu Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
740 745 750

Lys

<210> 1147
<211> 753
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1147

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

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser

20 25 30

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

Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
50 55 60

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

Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His Ser Arg
85 90 95

Glu Leu Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gly Gly Gly Ser Gln Val
115 120 125

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
130 135 140

Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser Arg Tyr Trp Met
145 150 155 160

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Glu
165 170 175

Ile Asn Pro Thr Ser Ser Thr Ile Asn Phe Thr Pro Ser Leu Lys Asp
180 185 190

Lys Val Phe Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
195 200 205

Met Ser Lys Val Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg
210 215 220

```
Gly Asn Tyr Tyr Arg Tyr Gly Asp Ala Met Asp Tyr Trp Gly Gln Gly
225                 230                 235                 240


Thr Ser Val Thr Val Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
                245                 250                 255


Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro
            260                 265                 270


Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln
        275                 280                 285


Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu
    290                 295                 300


Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys
305                 310                 315                 320


Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met
                325                 330                 335


Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu
            340                 345                 350


Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile
        355                 360                 365


Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr
    370                 375                 380


Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp
385                 390                 395                 400


Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His
                405                 410                 415


Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln
```

420 425 430

Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu
435 440 445

Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys
450 455 460

Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys
465 470 475 480

Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly Gly Gly Ser
485 490 495

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gln Val Gln Leu Val
500 505 510

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
515 520 525

Cys Ala Ala Ser Gly Phe Asp Phe Ser Arg Tyr Trp Met Ser Trp Val
530 535 540

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Glu Ile Asn Pro
545 550 555 560

Thr Ser Ser Thr Ile Asn Phe Thr Pro Ser Leu Lys Asp Lys Val Phe
565 570 575

Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Lys
580 585 590

Val Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Gly Asn Tyr
595 600 605

Tyr Arg Tyr Gly Asp Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val
610 615 620

Thr Val Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gly Gly
625 630 635 640

Gly Ser Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser
645 650 655

Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys Ser Val Ser
660 665 670

Thr Ser Gly Tyr Ser Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln
675 680 685

Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val
690 695 700

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn
705 710 715 720

Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His
725 730 735

Ser Arg Glu Leu Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
740 745 750

Lys

<210> 1148
<211> 753
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1148

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

```
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser Arg Tyr
            20                  25                  30

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

Gly Glu Ile Asn Pro Thr Ser Ser Thr Ile Asn Phe Thr Pro Ser Leu
    50                  55                  60

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

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

Ala Arg Gly Asn Tyr Tyr Arg Tyr Gly Asp Ala Met Asp Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Ser Val Thr Val Ser Gly Gly Gly Gly Ser Gly Gly Gly
        115                 120                 125

Gly Ser Ala Gly Gly Gly Ser Asp Ile Val Leu Thr Gln Ser Pro Ala
    130                 135                 140

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

Ser Lys Ser Val Ser Thr Ser Gly Tyr Ser Tyr Leu His Trp Tyr Gln
                165                 170                 175

Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn
            180                 185                 190

Leu Glu Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr
        195                 200                 205

Asp Phe Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr
```

210 215 220

Tyr Tyr Cys Gln His Ser Arg Glu Leu Pro Phe Thr Phe Gly Ser Gly
225 230 235 240

Thr Lys Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
245 250 255

Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro
260 265 270

Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln
275 280 285

Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu
290 295 300

Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr Thr Lys Lys
305 310 315 320

Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met
325 330 335

Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu
340 345 350

Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile
355 360 365

Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr
370 375 380

Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp
385 390 395 400

Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His
405 410 415

```
Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr Met Lys Gln
            420                 425                 430

Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu
        435                 440                 445

Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys
    450                 455                 460

Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys
465                 470                 475                 480

Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly Gly Gly Ser
                485                 490                 495

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Asp Ile Val Leu Thr
            500                 505                 510

Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly Gln Arg Ala Thr Ile
        515                 520                 525

Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser Gly Tyr Ser Tyr Leu
    530                 535                 540

His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
545                 550                 555                 560

Leu Ala Ser Asn Leu Glu Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
                565                 570                 575

Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His Pro Val Glu Glu Glu
            580                 585                 590

Asp Ala Ala Thr Tyr Tyr Cys Gln His Ser Arg Glu Leu Pro Phe Thr
        595                 600                 605

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly
```

819

610 615 620

Gly Gly Gly Ser Ala Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser
625 630 635 640

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
645 650 655

Ala Ser Gly Phe Asp Phe Ser Arg Tyr Trp Met Ser Trp Val Arg Gln
660 665 670

Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Glu Ile Asn Pro Thr Ser
675 680 685

Ser Thr Ile Asn Phe Thr Pro Ser Leu Lys Asp Lys Val Phe Ile Ser
690 695 700

Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Lys Val Arg
705 710 715 720

Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Gly Asn Tyr Tyr Arg
725 730 735

Tyr Gly Asp Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val
740 745 750

Ser

<210> 1149
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<220>
<221> misc_feature

<222> (1)..(5)
<223> Xaa can be any naturally occurring amino acid

<400> 1149

Xaa Xaa Xaa Xaa Xaa
1 5

<210> 1150
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1150

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65 70 75 80

Gly Gly Ser Gly Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
85 90 95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
100 105 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
115 120 125

```
Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305                 310                 315                 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
```

325 330 335

Ser Trp Val Glu Phe Asn Glu Arg Leu His Ala Ile Tyr Leu Arg Leu
340 345 350

Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
355 360 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
370 375 380

Pro Glu Val Glu Thr Leu Arg Arg His Ala Ala Gly Ile Arg Trp Gln
385 390 395 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
405 410 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
420 425 430

<210> 1151
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1151

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg

50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65 70 75 80

Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
85 90 95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
100 105 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
115 120 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
130 135 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145 150 155 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
165 170 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
180 185 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
195 200 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
210 215 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225 230 235 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
245 250 255

```
Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305                 310                 315                 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
                325                 330                 335

Ser Trp Val Glu Phe Glu Ala Arg Leu Ser Ala Ile Tyr Glu Arg Leu
            340                 345                 350

Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
        355                 360                 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
    370                 375                 380

Pro Glu Val Glu Lys Leu Arg Arg His Ala Ala Gly Ile Arg Ser Asn
385                 390                 395                 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
                405                 410                 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
            420                 425                 430
```

<210> 1152
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1152

```
Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1               5                  10                  15


Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30


Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45


Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60


Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65                  70                  75                  80


Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
                85                  90                  95


Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110


Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125


Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140


Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160


Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175


Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
```

180 185 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
195 200 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
210 215 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225 230 235 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
245 250 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
260 265 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
290 295 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305 310 315 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
325 330 335

Ser Trp Val Glu Phe Phe Val Arg Leu Asp Ala Ile Trp Glu Arg Leu
340 345 350

Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
355 360 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
370 375 380

```
Pro Glu Val Glu Thr Leu Arg Phe His Ala Ala Gly Ile Arg Gln Lys
385                 390                 395                 400


Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
                405                 410                 415


Ser Gly Gly Gly Gly Ser His His His His His His His His His His
            420                 425                 430


<210>  1153
<211>  432
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1153

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1               5                   10                  15


Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30


Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45


Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60


Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65                  70                  75                  80


Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
                85                  90                  95


Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110
```

```
Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
```

829

305 310 315 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
325 330 335

Ser Trp Asn Glu Phe Lys Leu Glu Leu Ala Phe Ile Lys Asp Trp Leu
340 345 350

Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Asn Phe Glu Glu Ala
355 360 365

Ile Ala Glu Phe Glu Ala Gly Leu Gln Gly Tyr Lys Gly Lys Gly Asn
370 375 380

Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg Asp Glu
385 390 395 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
405 410 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
420 425 430

<210> 1154
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1154

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys

```
                                                830
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65                  70                  75                  80

Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
                85                  90                  95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240
```

```
Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305                 310                 315                 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
                325                 330                 335

Ser Trp Met Glu Phe Glu Ala Arg Leu Glu Ala Ile Trp Asp Arg Leu
            340                 345                 350

Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
        355                 360                 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
    370                 375                 380

Pro Glu Val Glu Ser Leu Arg Phe His Ala Ala Gly Ile Arg Gln His
385                 390                 395                 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
                405                 410                 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
            420                 425                 430
```

<210>  1155

<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1155

```
Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1               5                  10                  15


Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30


Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45


Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60


Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65                  70                  75                  80


Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
                85                  90                  95


Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110


Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125


Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140


Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160


Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
```

```
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305                 310                 315                 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
                325                 330                 335

Ser Trp His His Phe Lys Met His Leu Ala Gly Ile Lys Leu Gln Leu
            340                 345                 350

Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Glu Phe Glu Glu Trp
        355                 360                 365
```

Ile Ala Asp Phe Glu Gly Ala Leu Gln Asp Tyr Lys Gly Lys Gly Asn
370 375 380

Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg Asp Glu
385 390 395 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
405 410 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
420 425 430

<210> 1156
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1156

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65 70 75 80

Gly Gly Ser Gly Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
85 90 95

```
Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
```

290 295 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305 310 315 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
325 330 335

Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr Arg Leu
340 345 350

Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
355 360 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
370 375 380

Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg Asp Glu
385 390 395 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
405 410 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
420 425 430

<210> 1157
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1157

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu

```
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65                  70                  75                  80

Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
                85                  90                  95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220
```

```
Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305                 310                 315                 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
                325                 330                 335

Ser Trp Ala Glu Phe Arg Trp Arg Leu His Ala Ile Trp Leu Gln Leu
            340                 345                 350

Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
        355                 360                 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
    370                 375                 380

Pro Glu Val Glu Trp Leu Arg Gln Asp Ala Ala Gln Ile Lys Tyr Ile
385                 390                 395                 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
                405                 410                 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
```

420 425 430

<210> 1158
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1158

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65 70 75 80

Gly Gly Ser Gly Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
85 90 95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
100 105 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
115 120 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
130 135 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr

840
145 150 155 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
165 170 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
180 185 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
195 200 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
210 215 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225 230 235 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
245 250 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
260 265 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
290 295 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305 310 315 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
325 330 335

Ser Trp Lys Thr Phe Lys Ile Glu Leu Ala Gly Ile Lys Leu Glu Leu
340 345 350

```
Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Gly Phe Glu Asn Ala
        355                 360                 365


Ile Ala Gln Phe Glu Ser Ser Leu Gln Tyr Tyr Lys Gly Lys Gly Asn
    370                 375                 380


Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg Asp Glu
385                 390                 395                 400


Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
                405                 410                 415


Ser Gly Gly Gly Gly Ser His His His His His His His His His His
            420                 425                 430


<210>  1159
<211>  432
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1159

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1               5                   10                  15


Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30


Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45


Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60


Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65                  70                  75                  80
```

```
Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
                85                  90                  95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

Thr Glu Glu Gln Leu Glu Ala Val Ile Ala Asp Phe Ser Gly Leu Leu
```

275 280 285

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
290 295 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305 310 315 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
325 330 335

Ser Trp His Glu Phe Leu Arg Arg Leu Leu Ala Ile Glu Met Arg Leu
340 345 350

Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
355 360 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
370 375 380

Pro Glu Val Glu His Leu Arg Val Arg Ala Ala Ser Ile Arg Gln Met
385 390 395 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
405 410 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
420 425 430

<210> 1160
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1160

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr

```
1               5                   10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65                  70                  75                  80

Gly Gly Ser Gly Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
                85                  90                  95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205
```

```
Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305                 310                 315                 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
                325                 330                 335

Ser Trp Trp Glu Phe Arg Val Arg Leu Glu Ala Ile Asp Tyr Arg Leu
            340                 345                 350

Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
        355                 360                 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
    370                 375                 380

Pro Glu Val Glu Tyr Leu Arg Met Lys Ala Ala Thr Ile Arg Ala Ile
385                 390                 395                 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
```

405 410 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
420 425 430

<210> 1161
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1161

Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1 5 10 15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
50 55 60

Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65 70 75 80

Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
85 90 95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
100 105 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
115 120 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr

```
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305                 310                 315                 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
                325                 330                 335
```

```
Ser Trp Tyr Glu Phe Arg Trp Arg Leu His Ala Ile Trp Leu Arg Leu
            340                 345                 350

Gly Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
        355                 360                 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
    370                 375                 380

Pro Glu Val Glu Trp Leu Arg Gln Asp Ala Ala Gln Ile Arg Tyr Ile
385                 390                 395                 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
                405                 410                 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
            420                 425                 430
```

<210>  1162
<211>  432
<212>  PRT
<213>  Artificial sequence

<220>
<223>  artificial construct

<400>  1162

```
Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1               5                   10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60
```

```
Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65                  70                  75                  80

Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
                85                  90                  95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
```

850

260 265 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
290 295 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305 310 315 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
325 330 335

Ser Trp Trp Glu Phe Asn Ile Arg Leu His Ala Ile Asp Tyr Arg Leu
340 345 350

Lys Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
355 360 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
370 375 380

Pro Glu Val Glu Leu Leu Arg Glu Lys Ala Ala Gln Ile Arg Ala Gln
385 390 395 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
405 410 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
420 425 430

<210> 1163
<211> 432
<212> PRT
<213> Artificial sequence

<220>
<223> artificial construct

<400> 1163

```
Met Gly Ser Trp Ala Glu Phe Lys Gln Arg Leu Ala Ala Ile Lys Thr
1               5                  10                  15

Arg Leu Glu Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
            20                  25                  30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
        35                  40                  45

Gly Asn Pro Glu Val Glu Ala Leu Arg Lys Glu Ala Ala Ala Ile Arg
    50                  55                  60

Asp Glu Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly
65                  70                  75                  80

Gly Gly Ser Gly Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
                85                  90                  95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
            100                 105                 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
        115                 120                 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
    130                 135                 140

Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190
```

```
Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305                 310                 315                 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Met Gly
                325                 330                 335

Ser Trp Trp Glu Phe Asn Met Arg Leu Ser Ala Ile Lys Tyr Arg Leu
            340                 345                 350

Tyr Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu
        355                 360                 365

Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn
    370                 375                 380

Pro Glu Val Glu Ile Leu Arg Arg Leu Ala Ala Asp Ile Arg Glu Arg
```

853
385 390 395 400

Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly
405 410 415

Ser Gly Gly Gly Gly Ser His His His His His His His His His His
420 425 430

<210> 1164
<211> 327
<212> PRT
<213> Artificial Sequence

<220>
<223> Recoombinant construct

<400> 1164

Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1 5 10 15

Phe Gly Asp Glu Met Gly Ser Trp Ser Glu Phe Tyr Asp Arg Leu Asn
20 25 30

Ala Ile Asp Ala Arg Leu Trp Ala Leu Gly Gly Ser Glu Ala Glu Leu
35 40 45

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
50 55 60

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Ser Leu Arg Glu His Ala
65 70 75 80

Ala Ala Ile Arg Glu Trp Leu Gln Ala Tyr Arg His Asn Gly Gly Gly
85 90 95

Gly Asp Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
100 105 110

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro

115 120 125

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
130 135 140

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
145 150 155 160

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
165 170 175

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
180 185 190

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
195 200 205

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
210 215 220

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
225 230 235 240

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
245 250 255

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
260 265 270

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
275 280 285

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
290 295 300

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
305 310 315 320

Met Gln Ala Leu Pro Pro Arg
325

<210> 1165
<211> 406
<212> PRT
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 1165

Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile Arg Glu
1 5 10 15

Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu
20 25 30

Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys
35 40 45

Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr Ile Lys
50 55 60

Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly Gly Asp Gly Gly
65 70 75 80

Gly Gly Ser Gly Gly Gly Gly Ser Gly Leu Glu Lys Cys Phe Gln Thr
85 90 95

Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
100 105 110

Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
115 120 125

Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu Val Ala Tyr
130 135 140

```
Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
145                 150                 155                 160

Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
                165                 170                 175

Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
            180                 185                 190

Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
        195                 200                 205

Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
    210                 215                 220

Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
225                 230                 235                 240

Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Thr
                245                 250                 255

Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
            260                 265                 270

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

Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
    290                 295                 300

Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly Val Gly Gly
305                 310                 315                 320

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Met Gly Ser
                325                 330                 335

Trp Ser Glu Phe Trp Ala Arg Leu Gly Ala Ile Arg Glu Arg Leu Asp
```

340 345 350

Ala Leu Gly Gly Ser Glu Ala Glu Leu Ala Ala Phe Glu Lys Glu Ile
355 360 365

Ala Ala Phe Glu Ser Glu Leu Gln Ala Tyr Lys Gly Lys Gly Asn Pro
370 375 380

Glu Val Glu Lys Leu Arg Tyr Thr Ala Gly Thr Ile Lys Arg Phe Leu
385 390 395 400

Gln Ala Tyr Arg His Asn
405

<210> 1166
<211> 327
<212> PRT
<213> Artificial Sequence

<220>
<223> Recombinant construct

<400> 1166

Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
1 5 10 15

Phe Gly Asp Glu Met Gly Ser Trp Ser Glu Phe Trp Ala Arg Leu Gly
20 25 30

Ala Ile Arg Glu Arg Leu Asp Ala Leu Gly Gly Ser Glu Ala Glu Leu
35 40 45

Ala Ala Phe Glu Lys Glu Ile Ala Ala Phe Glu Ser Glu Leu Gln Ala
50 55 60

Tyr Lys Gly Lys Gly Asn Pro Glu Val Glu Lys Leu Arg Tyr Thr Ala
65 70 75 80

Gly Thr Ile Lys Arg Phe Leu Gln Ala Tyr Arg His Asn Gly Gly Gly

```
                85                  90                  95

Gly Asp Gly Gly Gly Gly Ser Gly Thr Thr Thr Pro Ala Pro Arg Pro
            100                 105                 110

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
        115                 120                 125

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
    130                 135                 140

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
145                 150                 155                 160

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
                165                 170                 175

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
            180                 185                 190

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
        195                 200                 205

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
    210                 215                 220

Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
225                 230                 235                 240

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
                245                 250                 255

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
            260                 265                 270

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
        275                 280                 285
```

```
Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
    290                 295                 300

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
305                 310                 315                 320

Met Gln Ala Leu Pro Pro Arg
                325
```