SEQUENCE LISTING

<110> HARPOON THERAPEUTICS, INC.

<120> BINDING MOIETY FOR CONDITIONAL ACTIVATION OF IMMUNOGLOBULIN MOLECULES

<130> 47517-729.601

<140> PCT/US2019/032307
<141> 2019-05-14

<150> 62/756,453
<151> 2018-11-06

<150> 62/756,429
<151> 2018-11-06

<150> 62/671,349
<151> 2018-05-14

<150> 62/671,344
<151> 2018-05-14

<160> 1140

<170> PatentIn version 3.5

<210> 1
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 1
Lys Arg Ala Leu Gly Leu Pro Gly
1 5

<210> 2
<211> 40
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:

Protease cleavage site sequence

<400> 2
Asp Glu Asp Glu Asp Glu Asp Glu Asp Glu Asp Glu Asp Glu Asp Glu
1               5                   10                  15

Arg Pro Leu Ala Leu Trp Arg Ser Asp Arg Asp Arg Asp Arg Asp Arg
            20                  25                  30

Asp Arg Asp Arg Asp Arg Asp Arg
        35                  40

<210> 3
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Ser or Thr

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Leu or Ile

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Ser or Thr

<400> 3
Pro Arg Xaa Xaa Xaa
1               5

<210> 4
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 4
Leu Glu Ala Thr Ala
1 5

<210> 5
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 5
Gly Gly Ala Ala Asn Leu Val Arg Gly Gly
1 5 10

<210> 6
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 6
Ser Gly Arg Ile Gly Phe Leu Arg Thr Ala
1 5 10

<210> 7
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 7
Pro Leu Gly Leu Ala Gly

1 5

<210> 8
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Any amino acid

<400> 8
Pro Leu Gly Leu Ala Xaa
1 5

<210> 9
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 9
Pro Leu Gly Cys Ala Gly
1 5

<210> 10
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 10
Glu Ser Pro Ala Tyr Tyr Thr Ala
1 5

<210> 11
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 11
Arg Leu Gln Leu Lys Leu
1               5


<210> 12
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 12
Arg Leu Gln Leu Lys Ala Cys
1               5


<210> 13
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence


<220>
<221> MOD_RES
<222> (3)..(3)
<223> Cit

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Hof

<400> 13
Glu Pro Xaa Gly Xaa Tyr Leu
1               5


<210> 14
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 14
Ser Gly Arg Ser Ala
1               5


<210> 15
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 15
Asp Ala Phe Lys
1


<210> 16
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 16
Gly Gly Gly Arg Arg
1               5


<210> 17

<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 17
Gly Phe Leu Gly
1

<210> 18
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 18
Ala Leu Ala Leu
1

<210> 19
<211> 2
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 19
Phe Lys
1

<210> 20
<211> 3
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 20
Asn Leu Leu
1

<210> 21
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 21
Pro Ile Cys Phe Phe
1 5

<210> 22
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 22
Gly Gly Pro Arg Gly Leu Pro Gly
1 5

<210> 23
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 23
His Ser Ser Lys Leu Gln
1 5

<210> 24

<211> 7
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 24
His Ser Ser Lys Leu Gln Leu
1 5

<210> 25
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 25
His Ser Ser Lys Leu Gln Glu Asp Ala
1 5

<210> 26
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 26
Leu Val Leu Ala Ser Ser Ser Phe Gly Tyr
1 5 10

<210> 27
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 27
Gly Val Ser Gln Asn Tyr Pro Ile Val Gly
1               5                   10


<210> 28
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 28
Gly Val Val Gln Ala Ser Cys Arg Leu Ala
1               5                   10


<210> 29
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence


<220>
<221> MOD_RES
<222> (2)..(2)
<223> Pip

<400> 29
Phe Xaa Arg Ser
1


<210> 30
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 30
Asp Pro Arg Ser Phe Leu
1               5


<210> 31
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 31
Pro Pro Arg Ser Phe Leu
1               5


<210> 32
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 32
Asp Glu Val Asp
1


<210> 33
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 33
Asp Glu Val Asp Pro
1               5


<210> 34
<211> 8

<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 34
Lys Gly Ser Gly Asp Val Glu Gly
1 5

<210> 35
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 35
Gly Trp Glu His Asp Gly
1 5

<210> 36
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 36
Glu Asp Asp Asp Asp Lys Ala
1 5

<210> 37
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 37
Lys Gln Glu Gln Asn Pro Gly Ser Thr
1               5


<210> 38
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 38
Gly Lys Ala Phe Arg Arg
1               5


<210> 39
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 39
Asp Ala Phe Lys
1


<210> 40
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 40
Asp Val Leu Lys
1


<210> 41
<211> 4

<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 41
Asp Ala Phe Lys
1

<210> 42
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 42
Ala Leu Leu Leu Ala Leu Leu
1 5

<210> 43
<211> 518
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 43
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

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

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
35 40 45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly

```
    50                  55                  60

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

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Lys Pro Leu Gly Leu Gln Ala Arg Val Val Gly Gly Gly Gly Thr Gln
    130                 135                 140

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
145                 150                 155                 160

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
                165                 170                 175

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
            180                 185                 190

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
        195                 200                 205

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
    210                 215                 220

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
225                 230                 235                 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
                245                 250                 255
```

```
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
            260                 265                 270

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        275                 280                 285

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
    290                 295                 300

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
305                 310                 315                 320

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg
                325                 330                 335

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
            340                 345                 350

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
        355                 360                 365

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
385                 390                 395                 400

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                405                 410                 415

Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu
            420                 425                 430

Tyr His Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
        435                 440                 445
```

```
Val Ser Thr Ile Asn Pro Ala Gly Thr Thr Asp Tyr Ala Glu Ser Val
    450                 455                 460

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
465                 470                 475                 480

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                485                 490                 495

Asp Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
            500                 505                 510

His His His His His His
        515
```

<210> 44
<211> 518
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 44

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

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

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80
```

```
Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Ser Gly Gly Gly Gly Ser Gly Gly Val Val Gly Gly Gly Gly Thr Gln
    130                 135                 140

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
145                 150                 155                 160

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
                165                 170                 175

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
            180                 185                 190

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
        195                 200                 205

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
    210                 215                 220

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
225                 230                 235                 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
            260                 265                 270
```

```
Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        275                 280                 285

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
    290                 295                 300

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
305                 310                 315                 320

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg
                325                 330                 335

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
            340                 345                 350

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
        355                 360                 365

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
385                 390                 395                 400

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                405                 410                 415

Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu
            420                 425                 430

Tyr His Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
        435                 440                 445

Val Ser Thr Ile Asn Pro Ala Gly Thr Thr Asp Tyr Ala Glu Ser Val
    450                 455                 460
```

```
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
465                 470                 475                 480


Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                485                 490                 495


Asp Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
            500                 505                 510


His His His His His His
        515


<210> 45
<211> 382
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 45
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15


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


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


Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60


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


Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95
```

```
Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

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

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Thr Leu Ser Cys Ala
        275                 280                 285
```

```
Ala Ser Arg Phe Met Ile Ser Glu Tyr His Met His Trp Val Arg Gln
    290                 295                 300

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Thr Ile Asn Pro Ala Gly
305                 310                 315                 320

Thr Thr Asp Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350

Glu Asp Thr Ala Val Tyr Tyr Cys Asp Ser Tyr Gly Tyr Arg Gly Gln
        355                 360                 365

Gly Thr Gln Val Thr Val Ser Ser His His His His His His
    370                 375                 380
```

<210> 46
<211> 534
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 46

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

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

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60
```

```
Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Lys Pro Leu Gly Leu Gln Ala Arg Val Val Gly Gly Gly Gly Thr Gln
    130                 135                 140

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
145                 150                 155                 160

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
                165                 170                 175

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
            180                 185                 190

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
        195                 200                 205

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
    210                 215                 220

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
225                 230                 235                 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
                245                 250                 255
```

```
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
            260                 265                 270

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        275                 280                 285

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
    290                 295                 300

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
305                 310                 315                 320

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg
                325                 330                 335

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
            340                 345                 350

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
        355                 360                 365

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
385                 390                 395                 400

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                405                 410                 415

Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser
            420                 425                 430

Tyr Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
        435                 440                 445

Val Val Ala Ile Asn Trp Ala Ser Gly Ser Thr Tyr Tyr Ala Asp Ser
```

```
    450                 455                 460

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
465                 470                 475                 480

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
                485                 490                 495

Cys Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp
            500                 505                 510

Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        515                 520                 525

His His His His His His
    530
```

<210> 47
<211> 534
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 47

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

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

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60
```

```
Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Ser Gly Gly Gly Gly Ser Gly Gly Val Val Gly Gly Gly Gly Thr Gln
    130                 135                 140

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
145                 150                 155                 160

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
                165                 170                 175

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
            180                 185                 190

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
        195                 200                 205

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
    210                 215                 220

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
225                 230                 235                 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
```

```
            260                 265                 270

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        275                 280                 285

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
    290                 295                 300

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
305                 310                 315                 320

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg
                325                 330                 335

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
            340                 345                 350

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
        355                 360                 365

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
385                 390                 395                 400

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                405                 410                 415

Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser
            420                 425                 430

Tyr Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
        435                 440                 445

Val Val Ala Ile Asn Trp Ala Ser Gly Ser Thr Tyr Tyr Ala Asp Ser
    450                 455                 460
```

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
465 470 475 480

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
485 490 495

Cys Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp
500 505 510

Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
515 520 525

His His His His His His
530

<210> 48
<211> 398
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 48
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

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

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

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala

```
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

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

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
            260                 265                 270
```

```
Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Thr Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Arg Thr Phe Ser Ser Tyr Ala Met Gly Trp Phe Arg Gln
    290                 295                 300

Ala Pro Gly Lys Glu Arg Glu Phe Val Val Ala Ile Asn Trp Ala Ser
305                 310                 315                 320

Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
                325                 330                 335

Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
            340                 345                 350

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Gly Tyr Gln Ile Asn
        355                 360                 365

Ser Gly Asn Tyr Asn Phe Lys Asp Tyr Glu Tyr Asp Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser His His His His His His
385                 390                 395


<210> 49
<211> 503
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 49
Gln Val Gln Leu Val Glu Ser Gly Gly Ala Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Val Asn Arg Tyr
```

```
            20                  25                  30

Ser Met Arg Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
        35                  40                  45

Ala Gly Met Ser Ser Ala Gly Asp Arg Ser Ser Tyr Glu Asp Ser Val
    50                  55                  60

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

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

Asn Val Asn Val Gly Phe Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr
            100                 105                 110

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
        115                 120                 125

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
    130                 135                 140

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
145                 150                 155                 160

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
                165                 170                 175

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe
            180                 185                 190

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
        195                 200                 205

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
    210                 215                 220
```

```
Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly
225                 230                 235                 240

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
                245                 250                 255

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala
            260                 265                 270

Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala
        275                 280                 285

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

Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile
305                 310                 315                 320

Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
                325                 330                 335

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe
            340                 345                 350

Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
        355                 360                 365

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
    370                 375                 380

Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val
385                 390                 395                 400

Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala
                405                 410                 415
```

Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln
420 425 430

Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr
435 440 445

Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr
450 455 460

Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu
465 470 475 480

Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val
485 490 495

Leu His His His His His His
500

<210> 50
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 50
Gly Gly Gly Gly Gly Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 51
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 51

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Val Val Gly Gly
1 5 10 15

Gly Gly Thr

<210> 52
<211> 509
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 52
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

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

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Val
115 120 125

```
Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser Leu
    130                 135                 140

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

Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro
                165                 170                 175

Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro
            180                 185                 190

Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala
        195                 200                 205

Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys
    210                 215                 220

Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu
225                 230                 235                 240

Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
                245                 250                 255

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
            260                 265                 270

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
        275                 280                 285

Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
    290                 295                 300

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
305                 310                 315                 320
```

```
Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
                325                 330                 335

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
            340                 345                 350

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
        355                 360                 365

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
    370                 375                 380

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
385                 390                 395                 400

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Thr Leu Ser Cys Ala Ala
                405                 410                 415

Ser Arg Phe Met Ile Ser Glu Tyr His Met His Trp Val Arg Gln Ala
            420                 425                 430

Pro Gly Lys Gly Leu Glu Trp Val Ser Thr Ile Asn Pro Ala Gly Thr
        435                 440                 445

Thr Asp Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
    450                 455                 460

Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu
465                 470                 475                 480

Asp Thr Ala Val Tyr Tyr Cys Asp Ser Tyr Gly Tyr Arg Gly Gln Gly
                485                 490                 495

Thr Gln Val Thr Val Ser Ser His His His His His His
            500                 505
```

<210> 53

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

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 53
Gly Gly Gly Gly Lys Pro Leu Gly Leu Gln Ala Arg Val Val Gly Gly
1 5 10 15

Gly Gly Thr

<210> 54
<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 54
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

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

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
35 40 45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
50 55 60

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

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
85 90 95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
100 105 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
115 120 125

Lys Pro Leu Gly Leu Gln Ala Arg Val Val Gly Gly Gly Gly Thr
130 135 140

<210> 55
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 55
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Val Ala Ile Asn Trp Ala Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr

100 105 110

Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 56
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 56
Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1 5 10 15

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

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

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

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

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

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu
115 120 125

```
Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu
    130                 135                 140

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp
145                 150                 155                 160

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
                165                 170                 175

Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp
            180                 185                 190

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
        195                 200                 205

Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
    210                 215                 220

His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
225                 230                 235                 240

Gln Gly Thr Leu Val Thr Val Ser Ser
                245
```

<210> 57
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 57

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
            20                  25                  30
```

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


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


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


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


Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
            100                 105                 110


<210> 58
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 58
Lys Pro Leu Gly Leu Gln Ala Arg Val Val
1               5                   10


<210> 59
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 59
Pro Gln Ala Ser Thr Gly Arg Ser Gly Gly
1               5                   10
```

<210> 60
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 60
Pro Gln Gly Ser Thr Gly Arg Ala Ala Gly
1               5                   10


<210> 61
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 61
Pro Pro Ala Ser Ser Gly Arg Ala Gly Gly
1               5                   10


<210> 62
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Protease cleavage site sequence

<400> 62
Pro Ile Pro Val Gln Gly Arg Ala His
1               5


<210> 63
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

polypeptide

<400> 63
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
20 25 30

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

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

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

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

Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 64
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 64
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
20 25 30

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

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

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

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

Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
            100                 105                 110
```

<210> 65
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 65

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
            20                  25                  30

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

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

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

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

Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 66
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 66
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Pro Tyr
20 25 30

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

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

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

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

Gly Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 67
<211> 111

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
20 25 30

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

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

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

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

Gly Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 68
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 68
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
            20                  25                  30

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

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

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

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

Gly Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
            100                 105                 110

<210> 69
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 69
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
            20                  25                  30

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

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

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

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

Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 70
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 70
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Pro Tyr
20 25 30

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

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

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

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

Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser

100 105 110

<210> 71
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 71
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
20 25 30

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

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

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

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

Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 72
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
            20                  25                  30

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

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

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

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

Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
            100                 105                 110

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

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 73
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Arg Phe Met Ile Ser Glu Tyr
            20                  25                  30

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

35 40 45

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

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

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

Ser Tyr Gly Tyr Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 74
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 74
Glu 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 Thr Phe Asn Lys Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

```
Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95

Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
    130                 135                 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 75
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 75
Glu 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 Glu Phe Asn Lys Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Lys Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
130 135 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145 150 155 160

Thr Cys Gly Ser Ser Phe Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
165 170 175

```
Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190


Thr Lys Phe Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205


Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220


Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Asp Asn Arg Trp Val Phe
225                 230                 235                 240


Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 76
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 76

```
Glu 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 Thr Phe Asn Lys Tyr
            20                  25                  30


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


Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
    50                  55                  60


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

```
Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser His Ile Ser Tyr Trp
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
    130                 135                 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Gly Ser Ser Thr Gly Tyr Val Thr Ser Gly Asn Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Ser Phe Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Ile Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 77
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 77
Glu 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 Met Phe Asn Lys Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
100 105 110

Ala Thr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
130 135 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145 150 155 160

Thr Cys Gly Ser Ser Phe Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
165 170 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
180 185 190

Thr Lys Leu Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
195 200 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
210 215 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Ser Trp Val Phe
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
245

<210> 78
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 78
Glu 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 Thr Phe Asn Thr Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Lys Asp
50 55 60

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

```
Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Pro Ile Ser Tyr Trp
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
    130                 135                 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Gly Ser Ser Thr Gly Ala Val Val Ser Gly Asn Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Glu Phe Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 79
<211> 249
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 79
Glu 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 Thr Tyr Asn Lys Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Pro Ile Ser Tyr Trp
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
130 135 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145 150 155 160

Thr Cys Gly Ser Ser Lys Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
165 170 175

```
Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190


Thr Lys Glu Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205


Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220


Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240


Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 80
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 80

```
Glu 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 Asn Thr Phe Asn Lys Tyr
            20                  25                  30


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


Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Glu Thr Tyr Tyr Ala Asp
    50                  55                  60


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

```
65                  70                  75                  80

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95

Tyr Cys Val Arg His Thr Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
    130                 135                 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Tyr Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Tyr Phe Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 81
<211> 249

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 81
Glu 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 Thr Phe Asn Asn Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Gln Ile Ser Tyr Trp
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
130 135 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145 150 155 160

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Asp Gly Asn Tyr Pro Asn

```
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Ile Lys Phe Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 82
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 82

```
Glu 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 Thr Phe Asn Lys Tyr
            20                  25                  30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
    50                  55                  60
```

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
    130                 135                 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Gly Glu Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Lys Ile Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 83

<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 83
Glu 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 Thr Phe Asn Lys Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Asn Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Val Arg His Gly Asn Phe Asn Asn Ser Tyr Ile Ser Tyr Trp
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
130 135 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145 150 155 160

```
Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Lys Gly Asn Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Lys Met Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 84
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 84

```
Glu 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 Thr Phe Asn Gly Tyr
            20                  25                  30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
    50                  55                  60
```

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Pro Ile Ser Tyr Trp
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
    130                 135                 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Gly Ser Ser Thr Gly Ala Val Val Ser Gly Asn Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Glu Phe Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 85
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 85
Glu 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 Asn Thr Phe Asn Lys Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Ile Ser Tyr Trp
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
130 135 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145 150 155 160

```
Thr Cys Gly Ser Ser Thr Gly Ala Val Thr His Gly Asn Tyr Pro Asn
                165                 170                 175


Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190


Thr Lys Val Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205


Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220


Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240


Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 86
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 86

```
Glu 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 Thr Phe Asn Asn Tyr
            20                  25                  30


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


Ala Arg Ile Arg Ser Gly Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
    50                  55                  60
```

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
    130                 135                 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Gly Ser Tyr Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Lys Phe Asn Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ala Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 87
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 87
Glu 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 Glu Phe Asn Lys Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Glu Thr Tyr Tyr Ala Asp
50 55 60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Leu Ile Ser Tyr Trp
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
130 135 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145 150 155 160

Thr Cys Gly Ser Ser Ser Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
165 170 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
180 185 190

Thr Lys Phe Gly Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
195 200 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
210 215 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
245

<210> 88
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 88
Glu 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 Thr Phe Asn Lys Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp

```
    50                  55                  60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
    130                 135                 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Lys Phe Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
                245
```

<210> 89
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 89
Glu 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 Thr Phe Asn Lys Tyr
20 25 30

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Glu Tyr Ala Asp
50 55 60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Pro Ile Ser Tyr Trp
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
130 135 140

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

145 150 155 160

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
165 170 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
180 185 190

Thr Asn Phe Leu Ala Pro Gly Thr Pro Glu Arg Phe Ser Gly Ser Leu
195 200 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
210 215 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Ala Phe
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
245

<210> 90
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 90
Glu 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 Thr Phe Asn Glu Tyr
20 25 30

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

```
Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
    50                  55                  60

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

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Gly Ile Ser Tyr Trp
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val
    130                 135                 140

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Val Gly Asn Tyr Pro Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Glu Phe Leu Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu
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245

<210> 91
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 91
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 92
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 92
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 93
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 93
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 94
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 94
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser
20 25 30

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


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


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


Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95


Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Val Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 95
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 95
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1               5                   10                  15


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


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


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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Lys Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 96
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 96
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Gln Phe Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Val Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 97
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val His Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 98
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 98
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 99
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 99
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Val Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 100
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 100
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

Ala Ala Ile His Gly Phe Glu Thr Leu Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Leu Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 101
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 101
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Glu Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 102
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 102
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 103
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 103
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val His Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 104
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 104
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Met Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 105
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 105
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 106
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 106
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Arg Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 107
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 107
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 108
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 108
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 109
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 109
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 110
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 110
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Lys Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 111
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 111
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Ile Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 112
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 112
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Glu Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Thr Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 113
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 113
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Val Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Lys Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 114
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 114
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Val Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 115
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 115
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Glu Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 116
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 116
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 117
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Lys Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 118
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 118
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser His Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 119
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 119
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 120
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 120
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Gln Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 121
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 121
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 122
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

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

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 123
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 123
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn His Phe Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Val Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 124
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 124
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Asn Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 125
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 125
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 126
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 126
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 127
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 127
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 128
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 128
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 129
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 129
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ala Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 130
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 130
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ala Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 131
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 131
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ala Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 132
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 132
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 133
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 133
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Met Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 134
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 134
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 135
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 135
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Val Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 136
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 136
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Val Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 137
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 137
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Val Val Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Asn Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 138
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 138
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ile Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 139
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 139
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 140
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 140
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
20 25 30

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

Ala Ala Ile His Gly Phe Glu Thr Leu Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 141
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 141
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Gln Ser Ile Ser
20 25 30

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

Ala Ala Ile His Gly Phe Glu Thr Leu Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 142
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 142
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

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

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

Ala Ala Ile His Gly Phe Glu Thr Leu Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 143
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 143
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 144
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 144
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Met Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 145
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 145
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 146
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 146
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Arg Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 147
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 148
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 148
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 149
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 149
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 150
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 150
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Leu Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 151
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 151
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Thr Asn Ile Phe Ser Thr Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 152
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 153
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 153
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Gln Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Cys Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 154
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 154
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Gln Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Ser Asn Val Tyr Trp Gly Lys Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 155
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 155
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Arg Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 156
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 156
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 157
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 157
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 158
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 158
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Gly Ser
            20                  25                  30

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

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

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


Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95


Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 159
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 159
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1               5                   10                  15


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


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


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


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


Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95
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Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 160
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 160
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Tyr
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Lys Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 161
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 161
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 162
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 163
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 163
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Glu Phe Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Ala Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 164
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 164
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Glu Phe Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 165
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 165
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Pro Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 166
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 166
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Pro Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 167
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Pro Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 168
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 168
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Pro Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 169
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 169
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Gln Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 170
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 170
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Pro Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Gln Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 171
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 171
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Val Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ser Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 172
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

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

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 173
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 173
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 174
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 174
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser

115

<210> 175
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 175
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Arg Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Val Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 176
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 176
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 177
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 177
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 178
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 178
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Val Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95

Val Pro Trp Gly Asp Tyr His Pro Thr Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 179
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 179
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Gly Ser Ile Ser
            20                  25                  30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gln Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 180
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 180
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Arg Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 181

<400> 181
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<210> 182

<400> 182
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<210> 189
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 189
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Val Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Arg Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 190
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 190
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Met Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 191
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 191
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Met Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 192
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

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

```
Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Arg Ile Ser
            20                  25                  30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115
```

<210> 193
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 193

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

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

Pro Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
```

35 40 45

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Glu Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 194
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 194
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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


Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95


Val Pro Trp Gly Lys Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 195
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 195
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
            20                  25                  30


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


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


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


Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95
```

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 196
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 196
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 197
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Tyr Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 198
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 198
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 199
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 199
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

```
Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
            20                  25                  30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115


<210> 200
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 200
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Arg
            20                  25                  30

Pro Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
```

35 40 45

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 201
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 201
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Tyr
20 25 30

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

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

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


Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95


Val Pro Trp Gly Ser Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 202
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 202
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1               5                   10                  15


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


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


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


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


Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95
```

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 203
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 203
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 204
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 204
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
20 25 30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 205
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 205
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ser Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 206
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 206
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

```
Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Thr
            20                  25                  30

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95

Val Pro Trp Gly Ser Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115
```

<210> 207
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 207

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

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

Pro Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
```

35 40 45

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 208
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 208
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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


Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95


Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 209
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 209
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1               5                   10                  15


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


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


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


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


Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95
```

Val Pro Trp Gly Asp Tyr His Pro Arg Asp Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 210
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 210
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 211
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 211
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 212
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

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

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 213
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 213
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn Lys
                85                  90                  95

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 214
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 214
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Glu
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Ser
            20                  25                  30

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

35 40 45

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

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Lys
85 90 95

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 215
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 215
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

Gly Met Ala Trp Tyr Arg Gln Ala Gly Asn Asn Arg Ala Leu Val Ala
35 40 45

Thr Met Asn Pro Asp Gly Phe Pro Asn Tyr Ala Asp Ala Val Lys Gly
50 55 60

```
Arg Phe Thr Ile Ser Trp Asp Ile Ala Glu Asn Thr Val Tyr Leu Gln
65                  70                  75                  80


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


Gly Pro Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
            100                 105                 110


<210> 216
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 216
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Pro Ser Ile Glu
            20                  25                  30


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


Ala Ala Leu Thr Ser Gly Gly Arg Ala Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


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


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


Ala Gly Arg Phe Lys Gly Asp Tyr Ala Gln Arg Ser Gly Met Asp Tyr
            100                 105                 110
```

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 217
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 217
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

Leu Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Thr Val Val
35 40 45

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

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

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

Gly Gln Arg Ser Gly Val Arg Ala Phe Trp Gly Gln Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
115

<210> 218
<211> 123

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 218
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ala Val Ile Thr Arg Gly Gly Tyr Ala Ile Tyr Leu Asp Ala Val Lys
50 55 60

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

Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Val Cys Asn
85 90 95

Ala Asp Arg Val Glu Gly Thr Ser Gly Gly Pro Gln Leu Arg Asp Tyr
100 105 110

Phe Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 219
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 219
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Gly Ile Asn
            20                  25                  30

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

Ala Val Ile Ser Arg Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Ser Leu
65                  70                  75                  80

Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Asn
                85                  90                  95

Ala Arg Thr Tyr Thr Arg His Asp Tyr Trp Gly Gln Gly Thr Gln Val
            100                 105                 110

Thr Val Ser Ser
        115

<210> 220
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 220
Gln Val Arg Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Ile Ser Ala Phe Arg Leu Met
            20                  25                  30

Ser Val Arg Trp Tyr Arg Gln Asp Pro Ser Lys Gln Arg Glu Trp Val
35 40 45

Ala Thr Ile Asp Gln Leu Gly Arg Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ala Gly Gly Gly Pro Leu Gly Ser Arg Trp Leu Arg Gly Arg His Trp
100 105 110

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

<210> 221
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 221
Gln Val Arg Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Pro Phe Ser Ile Asn
20 25 30

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

Ala Ser Ile Ser Ser Ser Gly Asp Phe Thr Tyr Thr Asp Ser Val Lys

50 55 60

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

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

Ala Arg Arg Thr Tyr Leu Pro Arg Arg Phe Gly Ser Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 222
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

Ser Leu Arg Leu Ser Cys Val Val Ser Gly Ser Asp Phe Thr Glu Asp
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Ser Gly Lys Glu Arg Glu Ser Val
35 40 45

Ala Phe Val Ser Lys Asp Gly Lys Arg Ile Leu Tyr Leu Asp Ser Val
50 55 60

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

Leu Gln Met Asp Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys
85 90 95

Asn Ser Ala Pro Gly Ala Ala Arg Asn Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 223
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 223
Gln Val Gln Pro Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Val Ser Gly Ser Asp Phe Thr Glu Asp
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Ser Gly Lys Glu Arg Glu Ser Val
35 40 45

Ala Phe Val Ser Lys Asp Gly Lys Arg Ile Leu Tyr Leu Asp Ser Val
50 55 60

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

Leu Gln Met Asp Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys
85 90 95

Asn Ser Ala Pro Gly Ala Ala Arg Asn Val Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
        115


<210> 224
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 224
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1               5                   10                  15


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


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


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


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


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


Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
            100                 105                 110


Val Ser Ser
        115


<210> 225
<211> 124

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 225
Gln Val Gln Ile Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

Gly Arg Phe Thr Ile Ser Lys Glu Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
85 90 95

Ile Val Arg Gly Trp Leu Asp Glu Arg Pro Gly Pro Gly Pro Ile Val
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 226
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 226
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Gly
1               5                   10                  15

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

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

Ala Ser His Thr Ser Thr Gly Tyr Val Tyr Tyr Arg Asp Ser Val Lys
    50                  55                  60

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

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

Ala Asn Arg Gly Ser Tyr Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr
            100                 105                 110

Val Ser Ser
        115

<210> 227
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 227
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Thr Thr Ser Ser Ile Asn Ser
            20                  25                  30

Met Ser Trp Tyr Arg Gln Ala Gln Gly Lys Gln Arg Glu Pro Val Ala
35 40 45

Val Ile Thr Asp Arg Gly Ser Thr Ser Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Thr Cys His Val
85 90 95

Ile Ala Asp Trp Arg Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 228
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 228
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ala Ala Ile Ser Arg Ser Gly Gly Thr Thr Arg Tyr Ser Asp Ser Val

50 55 60

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

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

Asn Val Arg Arg Arg Gly Trp Gly Arg Thr Leu Glu Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 229
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 229
Gln Val Gln Leu Gly Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Pro Asn
20 25 30

Ala Met Ile Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Pro Val
35 40 45

Ala Ser Ile Asn Ser Ser Gly Ser Thr Asn Tyr Gly Asp Ser Val Lys
50 55 60

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

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

Tyr Ser Asp Phe Arg Arg Gly Thr Gln Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 230
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 230
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Pro Ser Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Thr Ser Ala Ile Thr
20 25 30

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

Ala Arg Ile Ser Val Arg Glu Asp Lys Glu Asp Tyr Glu Asp Ser Val
50 55 60

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

Leu Gln Met Asn Asn Leu Gln Pro His Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Gly Ala Gln Arg Trp Gly Arg Gly Pro Gly Thr Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
        115


<210> 231
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 231
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


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


Val Met Arg Trp Tyr Arg Gln Ala Pro Gly Thr Glu Arg Asp Leu Val
        35                  40                  45


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


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


Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala
                85                  90                  95


Asp Asp Ser Gly Ile Ala Arg Asp Tyr Trp Gly Gln Gly Thr Gln Val
            100                 105                 110


Thr Val Ser Ser
        115


<210> 232
<211> 118

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 232
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Glu
1 5 10 15

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

Ala Val Gly Trp Tyr Arg Gln Ala Pro Gly Ala Gln Arg Glu Leu Leu
35 40 45

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

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

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

Phe Tyr Arg Arg Phe Gly Ile Asn Lys Asn Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 233
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 233
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

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

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

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

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

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

Asn Ala Leu Arg Thr Tyr Tyr Leu Asn Asp Pro Val Val Phe Ser Trp
            100                 105                 110

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

<210> 234
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 234
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

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

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

Ala Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys
50 55 60

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

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

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

Thr Gln Val Thr Val Ser Ser
115

<210> 235
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 235
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ala Thr Ile Ser Asn Arg Gly Thr Ser Asn Tyr Ala Asn Ser Val Lys

50 55 60

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

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

Ala Arg Lys Trp Gly Arg Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 236
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 236
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Arg Gly
1 5 10 15

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

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

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

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

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

Thr Lys Arg Arg Glu Trp Ala Lys Asp Phe Glu Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 237
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 237
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Ala Ile Gly Ser Ile Asn Ser
20 25 30

Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Pro Val Ala
35 40 45

Val Ile Thr Asp Arg Gly Ser Thr Ser Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Thr Cys His Val
85 90 95

Ile Ala Asp Trp Arg Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 238
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 238
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

Thr Met Tyr Trp Phe Arg Gln Ala Pro Gly Glu Glu Arg Glu Leu Val
35 40 45

Ala Thr Ile Asn Arg Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys
50 55 60

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

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

Thr Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 239
<211> 114

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 239
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

Met Ser Trp Tyr Arg Gln Ala Pro Gly Asn Gln Arg Glu Pro Val Ala
35 40 45

Val Ile Thr Asn Arg Gly Thr Thr Ser Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Thr Cys His Val
85 90 95

Ile Ala Asp Trp Arg Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 240
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 240
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

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

Ala Met Arg Trp Tyr Arg Gln Ala Pro Gly Thr Glu Arg Asp Leu Val
        35                  40                  45

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

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

Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala
                85                  90                  95

Asp Thr Ile Gly Thr Ala Arg Asp Tyr Trp Gly Gln Gly Thr Gln Val
            100                 105                 110

Thr Val Ser Ser
        115

<210> 241
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 241
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

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

```
Thr Met Tyr Trp His Arg Gln Ala Pro Gly Asn Glu Arg Glu Leu Val
        35                  40                  45


Ala Tyr Val Thr Ser Arg Gly Thr Ser Asn Val Ala Asp Ser Val Lys
    50                  55                  60


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


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


Val Arg Thr Thr Ser Tyr Pro Val Asp Phe Trp Gly Gln Gly Thr Gln
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 242
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

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


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


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


Ala Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys
```

50 55 60

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

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

Thr Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 243
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 243
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Asp Trp Ser Ala Asn
20 25 30

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

Ala Arg Ile Ser Gly Arg Gly Val Val Asp Tyr Val Glu Ser Val Lys
50 55 60

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

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

Val Ala Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 244
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 244
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Asp Trp Ser Ala Asn
20 25 30

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

Ala Arg Ile Ser Gly Arg Gly Val Val Asp Tyr Val Glu Ser Val Lys
50 55 60

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

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

Val Ala Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 245
<211> 111
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 245
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Asp Trp Ser Ala Asn
20 25 30

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

Ser Arg Ile Ser Gly Arg Gly Val Val Asp Tyr Val Glu Ser Val Lys
50 55 60

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

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

Val Ala Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 246
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 246
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ala Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys
    50                  55                  60

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

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

Thr Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 247
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 247
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

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

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

Ala Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys
50 55 60

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

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

Thr Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 248
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 248
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys
50 55 60

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

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

Thr Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 249
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 249
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Ala Gly Gly
1 5 10 15

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

Ala Met Arg Trp Tyr Arg Gln Ala Pro Gly Thr Glu Arg Asp Leu Val
35 40 45

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

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

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

Asp Thr Ile Gly Thr Ala Arg Asp Tyr Trp Gly Gln Gly Thr Leu Val

100 105 110

Thr Val Ser Ser
115

<210> 250
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 250
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Asp Thr Ile Gly Thr Ala Arg Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser Gly Gly
115

<210> 251
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 251
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Asp Thr Ile Gly Thr Ala Arg Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser Gly Gly
115

<210> 252
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

polypeptide

<400> 252
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

Thr Met Tyr Trp His Arg Gln Ala Pro Gly Asn Glu Arg Glu Leu Val
35 40 45

Ala Tyr Val Thr Ser Arg Gly Thr Ser Asn Val Ala Asp Ser Val Lys
50 55 60

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

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

Val Arg Thr Thr Ser Tyr Pro Val Asp Phe Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Gly Gly
115

<210> 253
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 253
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

Thr Met Tyr Trp His Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
        35                  40                  45

Ala Tyr Val Thr Ser Arg Gly Thr Ser Asn Val Ala Asp Ser Val Lys
    50                  55                  60

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

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

Val Arg Thr Thr Ser Tyr Pro Val Asp Phe Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 254
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 254
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

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

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

Ser Tyr Val Thr Ser Arg Gly Thr Ser Asn Val Ala Asp Ser Val Lys
50 55 60

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

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

Val Arg Thr Thr Ser Tyr Pro Val Asp Phe Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 255
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 255
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Ala Gly Gly
1 5 10 15

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

Ala Met Arg Trp Tyr Arg Gln Ala Pro Gly Thr Glu Arg Asp Leu Val
35 40 45

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

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

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

Asp Thr Ile Gly Thr Ala Arg Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 256
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 256
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Ala Gly Gly
1 5 10 15

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

Ala Met Arg Trp Tyr Arg Gln Ala Pro Gly Thr Glu Arg Asp Leu Val
35 40 45

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

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

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

Asp Thr Ile Gly Thr Ala Arg Asp Tyr Trp Gly Gln Gly Thr Leu Val

100 105 110

Thr Val Ser Ser
115

<210> 257
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

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

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

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

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

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

Asp Thr Ile Gly Thr Ala Arg Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 258
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 258
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Asp Thr Ile Gly Thr Ala Arg Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 259
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 259
Gly Gly Gln Asp Gly Asn Glu Glu Met Gly Gly Gly
1 5 10

<210> 260
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 260
Gly Gly Gln Asp Gly Asn Glu Glu Gly Gly
1 5 10

<210> 261
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 261
Gly Gly Gly Gly Gln Asp Gly Asn Glu Glu Met Gly Gly Gly Gly Gly
1 5 10 15

<210> 262
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 262
Ala Pro Phe Gly Ser Glu Met
1 5

<210> 263
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 263
Ala Trp Asn Gly Pro Tyr Glu
1 5

<210> 264
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 264
Ala Gln Asp Asn Gly Asp Thr Lys Thr Gly
1 5 10

<210> 265
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 265
Ala Glu Ala Lys Glu Thr Gln Gly
1 5

<210> 266
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 266
Ala Thr Arg Arg Glu Gln Val Glu Gly
1 5

<210> 267
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 267
Ala Gln Ala Pro Ser Gln Pro
1 5

<210> 268
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 268
Ala Thr Arg Ser Arg Thr Arg Asn Asp Gly
1 5 10

<210> 269
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 269
Ala Asp Val Asp Ala Pro Asp Gly Leu Gly
1 5 10

<210> 270
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 270
Ala Ala Asp Ile Ser Asp Pro Gly Gly
1 5

<210> 271
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 271
Ala Leu Ser Val Asp Pro Ser Gly
1 5

<210> 272
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 272
Ala Arg Leu Ser Val Asp Pro Gly
1 5

<210> 273
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 273
Ala Val Glu Ala Ala Asp Arg Gly
1 5

<210> 274
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 274
Gly Gly Pro Asp Gly Asn Glu Glu Met Gly Gly Gly
1 5 10

<210> 275
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 275
Gly Gly Phe Asp Gly Asn Glu Glu Met Gly Gly Gly
1 5 10

<210> 276
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 276
Gly Gly Gly Asp Gly Asn Glu Glu Met Gly Gly Gly
1 5 10

<210> 277
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 277
Gly Gly Glu Met Asp Gly Glu Gly Gln Asn Gly Gly
1 5 10

<210> 278
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 278
Gly Gly Gly Gly Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 279
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 279
Gly Gly Gly Gly Ser Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 280
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 280
Gly Gly Gly Gly Ala Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 281
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 281
Gly Gly Gly Gly Gly Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 282
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 282
Gly Gly Gly Ala Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 283
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 283
Gly Gly Gly Gly Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly Gly
1 5 10 15

<210> 284
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 284
Gly Gly Ser Gly Ala Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 285
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 285
Gly Gly Ser Gly Ser Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 286
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 286
Gly Gly Ser Gly Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 287
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 287
Gly Gly Val Arg Asp Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10 15

<210> 288
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 288
Gly Gly Ser Gly Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly Gly Gly
1 5 10 15

<210> 289
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 289
Gly Gly Gly Arg Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 290
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 290
Gly Gly Ser Gly Gly Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 291
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 291
Gly Gly Gly Val Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 292
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 292
Gly Gly Gly Glu Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 293
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 293
Gly Gly Gly Val Ala Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 294
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 294
Gly Gly Gly Arg Ala Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 295
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 295
Gly Gly Tyr Ala Gly Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 296
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 296
Gly Gly Ala Gly Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 297
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 297
Gly Gly Arg Gly Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 298
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 298
Gly Gly Gly Gly Pro Asp Gly Asn Glu Glu Pro Gly Gly Gly Gly
1 5 10 15

<210> 299
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 299
Gly Gly Gly Glu Ala Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 300
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 300
Gly Gly Asp Ala Ser Leu Asp Gly Asn Glu Glu Pro Gly Gly
1 5 10

<210> 301
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 301
Gly Gly Arg Asp Ala Pro Asp Gly Asn Glu Glu Gly Gly
1 5 10

<210> 302
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 302
Ser Gly Gly Gly Gly Ser Gly Gly Val Val
1 5 10

<210> 303
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 303
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 304
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 304
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly
1 5 10 15

Ser

<210> 305
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 305
Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
1 5 10

<210> 306
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 306
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ile Ala
20 25 30

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

Ala Val Ile Thr Ser Phe Ser Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Asn

85 90 95

Ala Arg Tyr Phe Glu Arg Thr Asp Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 307
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 307
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Ser Ile Phe Ser Ile Ala
20 25 30

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

Ala Val Ile Thr Ser Phe Ser Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Asn
85 90 95

Ala Arg Tyr Phe Glu Arg Thr Asp Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
        115

<210> 308
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 308
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ile Ala
            20                  25                  30

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

Ala Ala Ile Thr Ser Phe Ser Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Asn
                85                  90                  95

Ala Arg Tyr Phe Glu Arg Thr Asp Trp Gly Gln Gly Thr Gln Val Thr
            100                 105                 110

Val Ser Ser
        115

<210> 309
<211> 115
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 309
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Ser Ile Phe Ser Ile Asn
20 25 30

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

Ala Arg Ile Thr Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Gly
85 90 95

Ala Tyr Gln Gly Leu Tyr Ala Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 310
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 310

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


Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ser Phe Ser Ile Thr
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
        35                  40                  45


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


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


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


Gly Arg Val Phe Asp His Val Tyr Trp Gly Gln Gly Thr Gln Val Thr
            100                 105                 110


Val Ser Ser
        115


<210> 311
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 311
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Lys Leu Ser Cys Ala Ala Ser Ser Ser Ile Phe Ser Ile Ser
            20                  25                  30
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Ser Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ala Ile Thr Thr Phe Asp Tyr Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ala Arg Ala Phe Gly Arg Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 312
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

Ser Leu Lys Leu Ser Cys Ala Ala Ser Ser Ser Ile Phe Ser Ile Ser
20 25 30

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

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

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

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

Ala Arg Thr Met Gly Arg Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 313
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 313
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Leu Asn Ile Lys
20 25 30

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

Ala Thr Leu Thr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

85 90 95

Leu Trp Asp Gly Val Gly Gly Ala Tyr Trp Gly Arg Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
115

<210> 314
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 314
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Ile Ser Cys Ala Ala Ser Gly Ser Thr Leu Asn Ile Lys
20 25 30

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

Ala Thr Leu Thr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Leu Trp Asp Gly Val Gly Gly Ala Tyr Trp Gly Arg Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
        115

<210> 315
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 315
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Asn Ile Lys
            20                  25                  30

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

Ala Thr Leu Thr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly
                85                  90                  95

Leu Trp Asn Gly Val Gly Gly Ala Tyr Trp Gly Arg Gly Thr Gln Val
            100                 105                 110

Thr Val Ser Ser
        115

<210> 316
<211> 115
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 316
Gln Val Gln Leu Gln Asp Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
1 5 10 15

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Asn Ile Lys Leu
20 25 30

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

Thr Leu Thr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Leu
85 90 95

Trp Asp Gly Val Gly Gly Ala Tyr Trp Gly Arg Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 317
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 317

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


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


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


Ala Ser Leu Thr Ser Glu Gly Leu Thr Asn Tyr Arg Asp Ser Val Lys
    50                  55                  60


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


Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly
                85                  90                  95


Leu Trp Asp Gly Val Gly Gly Ala Tyr Trp Gly Arg Gly Thr Gln Val
            100                 105                 110


Thr Val Ser Ser
        115


<210> 318
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 318
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Met Phe Ser Ser Tyr
            20                  25                  30
```

```
Ser Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Ala Ile Thr Thr Trp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Trp Leu
65                  70                  75                  80

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

Ala Arg Ser Trp Asn Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
            100                 105                 110

Ser Ser
```

<210> 319
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 319

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

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

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

Ala Ala Ile Thr Ser Tyr Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Trp Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Asn
85 90 95

Ala Arg Ser Trp Asn Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 320
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 320
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ala Ala Ile Thr Thr Tyr Gly Ser Thr Asn Tyr Ile Asp Ser Val Lys
50 55 60

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Asn

85 90 95

Ala Arg Ser Trp Asn Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 321
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 321
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ser Phe Ser His Asn
20 25 30

Thr Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
35 40 45

Ala Arg Ile Thr Thr Phe Gly Thr Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Gly Glu Ser Phe Gly Arg Ile Trp Tyr Asn Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
        115

<210> 322
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 322
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Ala
1               5                   10                  15

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

Thr Met Gly Trp Ser Arg Gln Ala Pro Gly Lys Gln Arg Glu Met Val
        35                  40                  45

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

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

Leu Gln Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

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

Thr Val Ser Ser
        115

<210> 323
<211> 116
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 323
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Ala
1 5 10 15

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

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

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

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

Leu Gln Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

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

Thr Val Ser Ser
115

<210> 324
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 324

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


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


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


Ala Asn Met His Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


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


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


Trp Tyr Gly Ile Gln Arg Ala Glu Gly Tyr Trp Gly Gln Gly Thr Gln
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 325
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 325
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Val Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30
```

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

Ala Gly Ile Ser Val Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

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

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

Ala Tyr Arg Trp Val Gly Arg Asp Thr Tyr Trp Gly Gln Gly Thr Gln
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 326
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 326
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Val Ala Gly Gly
1               5                   10                  15

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

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

Ala Gly Ile Ser Val Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

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

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

Ala Tyr Arg Trp Val Gly Arg Asp Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 327
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 327
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Val Ser Gly Gly
1 5 10 15

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

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

Ala Gly Ile Ser Val Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

Gln Met Asn Ser Leu Gln Pro Glu Asp Thr Ala Ala Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Arg Trp Val Gly Arg Asp Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 328
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 328
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Val Ala Gly Gly
1 5 10 15

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

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

Ala Gly Ile Ser Val Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr Leu
65 70 75 80

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

Ala Tyr Arg Trp Glu Gly Arg Asp Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
        115

<210> 329
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 329
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Val Ala Gly Gly
1               5                   10                  15

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

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

Ala Gly Ile Ser Val Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr Leu
65                  70                  75                  80

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

Ala Tyr Arg Trp Glu Gly Arg Asn Thr Tyr Trp Gly Gln Gly Thr Gln
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 330
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 330
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asn Tyr Val Asp Ser Val Lys
50 55 60

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

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

Ala Tyr Arg Trp Val Gly Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 331
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 331

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

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

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

Ala Gly Ile Ser Thr Asp Gly Thr Thr Asn Tyr Val Asp Ser Val Lys
    50                  55                  60

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

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

Ala Tyr Arg Trp Val Gly Arg Asp Thr Tyr Trp Gly Gln Gly Thr Gln
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 332
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 332
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Val Ala Gly Gly
1               5                   10                  15

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

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

Ala Gly Ile Ser Thr Asp Gly Thr Thr Asn Tyr Val Asp Ser Val Lys
50 55 60

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

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

Ala Tyr Arg Trp Val Gly Arg Asp Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 333
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 333
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ala Gly Ile Ser Thr Asp Gly Thr Thr Asn Tyr Val Asp Ser Val Lys
50 55 60

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

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

Ala Tyr Arg Trp Val Gly Arg Asp Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 334
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 334
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Glu Gly Asn Ala Lys Asn Thr Val Asp Leu
65 70 75 80

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

85 90 95

Ala Tyr Arg Trp Val Asp Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 335
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 335
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Val Ala Gly Gly
1 5 10 15

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

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

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Glu Asp Asn Ala Lys Asn Thr Val Asp Leu
65 70 75 80

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

Ala Tyr Arg Trp Ile Asp Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 336
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 336
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Glu Asp Asn Ala Lys Asn Thr Val Asp Leu
65 70 75 80

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

Ala Tyr Arg Trp Val Asp Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 337
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 337
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Val Ala Gly Gly
1 5 10 15

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

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

Ala Gly Ile Ser Ser Asp Gly Ser Thr Asn Tyr Val Asp Ser Val Lys
50 55 60

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

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

Ala Tyr Arg Trp Val Gly Arg Asp Thr Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 338
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 338

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


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


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


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


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


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


Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Gln
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 339
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 339
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


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

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

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

Gly Arg Phe Ala Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Asp Leu Gln Pro Asp Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Val Gly Gly Tyr Thr Tyr Trp Gly Gln Gly Thr Gln
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 340
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 340
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

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

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

Ala Gly Ile Ser Ser Asp Gly Ser Lys Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

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

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

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

Thr Gln Val Thr Val Ser Ser
115

<210> 341
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 341
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Phe Tyr Cys Tyr

85 90 95

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

Thr Gln Val Thr Val Ser Ser
115

<210> 342
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 342
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Asn Arg Gly Phe Ala Gly Ala Pro Ser Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
        115

<210> 343
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 343
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Met Phe Asn
            20                  25                  30

Ser Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Ile Ile Arg Ser Gly Gly Ser Ser Asn Tyr Ala Asp Thr Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Asp Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Phe
                85                  90                  95

Tyr Tyr Phe Gln Ser Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
            100                 105                 110

Ser Ser

<210> 344
<211> 114
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 344
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Met Val Asn
20 25 30

Ser Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Leu Ile Thr Ser Gly Gly Ser Ser Asn Tyr Ala Asp Thr Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Asp Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Phe
85 90 95

Tyr Tyr Phe Gln Ser Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 345
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 345

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Ser Ile Phe Ser Ile Ala
            20                  25                  30

Val Met Gly Trp Tyr Arg Gln Val Pro Gly Lys Arg Arg Glu Trp Val
        35                  40                  45

Ala Thr Ile Phe Asp Gly Ser Tyr Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Lys Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gln
                85                  90                  95

Thr His Trp Thr Gln Gly Ser Val Pro Lys Glu Ser Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 346
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 346
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Val Ala Ser Ser Gly Ile Phe Ser Asp Met
            20                  25                  30

```
Ser Met Val Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Ser Ile Thr Thr Phe Gly Ser Thr Asn Tyr Ala Asp Pro Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ser
                85                  90                  95

Gly Arg Ser Tyr Ser Ser Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr
            100                 105                 110

Val Ser Ser
        115
```

<210> 347
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 347

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Ser Ser Ile Ile
            20                  25                  30

Val Met Gly Trp Ser Arg Gln Ala Pro Gly Lys Gln Arg Glu Ser Val
        35                  40                  45

Ala Thr Ile Thr Arg Asp Gly Thr Arg Asn Tyr Ala Asp Ser Leu Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Ser Tyr Leu
65 70 75 80

Gln Ile Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Tyr
85 90 95

Ala Arg Tyr Gly Asp Ile Asn Tyr Trp Gly Lys Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 348
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 348
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Ser Ser Ile Ile
20 25 30

Val Met Gly Trp Ser Arg Gln Ala Pro Gly Lys Gln Arg Glu Ser Leu
35 40 45

Ala Thr Ile Ser Arg Gly Gly Thr Arg Thr Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Ser Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Tyr

85 90 95

Ala Arg Tyr Gly Asp Ile Asn Tyr Trp Gly Lys Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 349
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 349
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Thr Thr Asn
20 25 30

Ser Met Gly Trp His Arg Gln Gly Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Leu Ile Gly Ser Ala Gly Ser Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Ser Leu
65 70 75 80

Gln Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Phe
85 90 95

Tyr Tyr Asp Ser Arg Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 350
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 350
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Met Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Arg Glu Ile Ser Thr
20 25 30

Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Ala Ala
35 40 45

Arg Ile Thr Ser Gly Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr Leu Gln
65 70 75 80

Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Phe Ala
85 90 95

Tyr Asp Asn Ile Asn Ala Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 351
<211> 114
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 351
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Trp Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Arg Glu Ile Ser Thr
20 25 30

Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Ala Ala
35 40 45

Arg Ile Thr Ser Gly Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr Leu Gln
65 70 75 80

Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Phe Ala
85 90 95

Tyr Asp Asn Ile Asn Ala Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 352
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 352

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Trp Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Ser Arg Glu Ile Ser Thr
            20                  25                  30


Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Ala Ala
        35                  40                  45


Arg Ile Thr Ser Gly Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly
    50                  55                  60


Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr Leu Gln
65                  70                  75                  80


Met Asp Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Phe Ala
                85                  90                  95


Tyr Asp Asn Ile Asn Ala Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
            100                 105                 110


Ser Ser
```

<210> 353
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 353

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Arg
1               5                   10                  15


Ser Leu Gly Leu Ser Cys Ala Ala Ser Gly Ser Arg Glu Ile Ser Thr
            20                  25                  30
```

Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Ala Ala
35 40 45

Arg Ile Thr Ser Gly Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr Leu Gln
65 70 75 80

Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Phe Ala
85 90 95

Tyr Asp Asn Ile Asn Ala Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 354
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 354
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Ser Ile Phe Arg Gly Ala
20 25 30

Ala Met Tyr Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ala Ile Thr Thr Ser Gly Asn Thr Ser Tyr Ala Asp Ser Val Lys
50 55 60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr Leu
65                  70                  75                  80


Gln Ile Ile Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
                85                  90                  95


Phe Trp Ile Ala Gly Lys Ala Tyr Trp Gly Gln Gly Thr Gln Val Thr
            100                 105                 110


Val Ser Ser
        115


<210> 355
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 355
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ser Ser Phe Asn
            20                  25                  30


Phe Met Ser Trp His Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Ala
        35                  40                  45


Gly Val Ile Thr Arg Gly Gly Ala Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Val Lys Asn Thr Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Gly Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
```

85 90 95

Gly Arg Ser Gln Leu Gly Ser Thr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 356
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 356
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Leu Ala Ser Gly Thr Ile Phe Thr Ala Ser
20 25 30

Thr Met Gly Trp His Arg Gln Pro Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ser Ile Ala Gly Asp Gly Arg Thr Asn Tyr Ala Glu Ser Thr Glu
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Thr Met Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Tyr Leu Asp Thr Tyr Ala Tyr Trp Gly Gln Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
        115

<210> 357
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 357
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ile Ala
            20                  25                  30

Ser Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Val Ile Thr Ser Phe Ser Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95

Ala Arg Tyr Phe Glu Arg Thr Asp Trp Gly Gln Gly Thr Leu Val Thr
            100                 105                 110

Val Ser Ser
        115

<210> 358
<211> 114
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 358
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Met Phe Asn
20 25 30

Ser Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ile Ile Arg Ser Gly Gly Ser Ser Asn Tyr Ala Asp Thr Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Phe
85 90 95

Tyr Tyr Phe Gln Ser Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 359
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 359

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Val Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Val Gly Arg Asp Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 360
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 360
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Thr Ala Ser Gly Ser Ile Phe Arg Gly Ala
            20                  25                  30

Ala Met Tyr Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Ala Ile Thr Thr Ser Gly Asn Thr Ser Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Met Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
                85                  90                  95

Phe Trp Ile Ala Gly Lys Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
            100                 105                 110

Val Ser Ser
        115

<210> 361
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 361
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Asn Ile Lys
            20                  25                  30

Thr Met Ala Trp His Arg Gln Ala Pro Gly Asn Gln Arg Glu Leu Val
        35                  40                  45

Ala Thr Leu Thr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Gly
                85                  90                  95


Leu Trp Asn Gly Val Gly Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val
            100                 105                 110


Thr Val Ser Ser
        115


<210> 362
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 362
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Thr Leu Asn Ile Lys
            20                  25                  30


Ile Met Ala Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Thr Leu Thr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Gly
```

85 90 95

Leu Trp Asp Gly Val Gly Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 363
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 363
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Ser Ser Ile Phe Ser Ile Ser
20 25 30

Ser Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ala Ile Thr Thr Phe Asp Tyr Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Met Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Arg Ala Phe Gly Arg Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
        115


<210> 364
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 364
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ala Ala Ser Ser Met Gln Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 365
<211> 114
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 365
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Met Phe Ser Ser Tyr
20 25 30

Ser Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ala Ile Thr Ser Tyr Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Arg Ser Trp Asn Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 366
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 366

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Val Ser Met Phe Asn
            20                  25                  30


Ser Met Gly Trp His Arg Gln Pro Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Ile Ile Thr Ser Gly Gly Ser Ser Asn Tyr Ala Asp Thr Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Phe
                85                  90                  95


Tyr Tyr Phe Gln Ser Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110


Ser Ser
```

<210> 367
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 367

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Thr Ala Ser Gly Gly Arg Phe Ser Tyr Ala
            20                  25                  30
```

Thr Met Gly Trp Ser Arg Gln Ala Pro Gly Lys Gln Arg Glu Met Val
        35                  40                  45

Ala Arg Ile Thr Ser Ser Gly Phe Ser Thr Asn Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Asn Ala Gln His Phe Gly Thr Asp Ser Trp Gly Gln Gly Thr Leu Val
            100                 105                 110

Thr Val Ser Ser
        115

<210> 368
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 368
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ile Ser Ser Phe Asn
            20                  25                  30

Phe Met Ser Trp His Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Ala
        35                  40                  45

Gly Val Ile Thr Arg Gly Gly Ala Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys His
85 90 95

Gly Arg Ser Gln Leu Gly Ser Thr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 369
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 369
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Glu Ser Ile Phe Ser Ile Asn
20 25 30

Val Met Ala Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Arg Ile Thr Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Gly

85 90 95

Ala Tyr Gln Gly Leu Tyr Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 370
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 370
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Glu Ile Ser Thr
20 25 30

Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Ala Ala
35 40 45

Arg Ile Thr Ser Gly Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu Gln
65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Phe Ala
85 90 95

Tyr Asp Asn Ile Asn Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 371
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 371
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Thr Ala Ser Gly Ser Ile Phe Ser Ile Ala
20 25 30

Val Met Gly Trp Tyr Arg Gln Val Pro Gly Lys Arg Arg Glu Trp Val
35 40 45

Ala Thr Ile Phe Asp Gly Ser Tyr Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Gln
85 90 95

Thr His Trp Thr Gln Gly Ser Val Pro Lys Glu Ser Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 372
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 372
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 373
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 373

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Ser Gly Ile Phe Ser Asp Met
            20                  25                  30


Ser Met Val Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Ser Ile Thr Thr Phe Gly Ser Thr Asn Tyr Ala Asp Pro Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser
                85                  90                  95


Gly Arg Ser Tyr Ser Ser Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
            100                 105                 110


Val Ser Ser
        115


<210> 374
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 374
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Met Phe Ser Ser Tyr
            20                  25                  30
```

Ser Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Ala Ile Thr Thr Trp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95

Ala Arg Ser Trp Asn Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110

Ser Ser

<210> 375
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 375
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Thr Ala Ser Gly Ser Arg Phe Ser Tyr Ala
            20                  25                  30

Thr Met Gly Trp Ser Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Arg Ile Thr Ser Ser Gly Phe Ser Thr Asn Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Asn Ala Gln Gln Phe Gly Thr Asp Ser Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 376
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 376
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Thr Ser Asn
20 25 30

Val Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Asn Met His Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Arg

85 90 95

Trp Tyr Gly Ile Gln Arg Ala Glu Gly Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 377
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 377
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asn Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Val Gly Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 378
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 378
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ile Ser Ser Ile Ile
            20                  25                  30


Val Met Gly Trp Ser Arg Gln Ala Pro Gly Lys Gln Arg Glu Ser Val
        35                  40                  45


Ala Thr Ile Thr Arg Asp Gly Thr Arg Asn Tyr Ala Asp Ser Leu Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ser Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Arg Tyr Gly Asp Ile Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr
            100                 105                 110


Val Ser Ser
        115


<210> 379
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 379
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 380
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 380

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Leu Ala Ser Gly Thr Ile Phe Thr Ala Ser
            20                  25                  30


Thr Met Gly Trp His Arg Gln Pro Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Ser Ile Ala Gly Asp Gly Arg Thr Asn Tyr Ala Glu Ser Thr Glu
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Met Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Tyr Leu Asp Thr Tyr Ala Tyr Trp Gly Gln Gly Thr Leu Val
            100                 105                 110


Thr Val Ser Ser
        115


<210> 381
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 381
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30
```

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Val Asp Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Glu Gly Arg Asn Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 382
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 382
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ser Phe Ser His Asn
            20                  25                  30

Thr Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
        35                  40                  45

Ala Arg Ile Thr Thr Phe Gly Thr Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95


Gly Glu Ser Phe Gly Arg Ile Trp Tyr Asn Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 383
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 383
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ile Ser Ser Ile Ile
            20                  25                  30


Val Met Gly Trp Ser Arg Gln Ala Pro Gly Lys Gln Arg Glu Ser Leu
        35                  40                  45


Ala Thr Ile Ser Arg Gly Gly Thr Arg Thr Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ser Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Arg Tyr Gly Asp Ile Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 384
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 384
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ser Phe Ser Ile Thr
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
35 40 45

Ala Ala Ile Thr Ser Phe Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Asp Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Gly Arg Val Phe Asp His Val Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
        115

<210> 385
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 385
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Met Val Asn
            20                  25                  30

Ser Met Gly Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Leu Ile Thr Ser Gly Gly Ser Ser Asn Tyr Ala Asp Thr Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Phe
                85                  90                  95

Tyr Tyr Phe Gln Ser Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110

Ser Ser

<210> 386
<211> 116
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 386
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Asn Phe Lys
20 25 30

Ile Met Ala Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ser Leu Thr Ser Glu Gly Leu Thr Asn Tyr Arg Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Gly
85 90 95

Leu Trp Asp Gly Val Gly Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 387
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 387

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr Tyr
            20                  25                  30


Ala Ile Gly Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Thr His Tyr Val Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Val Gly Gly Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 388
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 388
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Thr Thr Asn
            20                  25                  30
```

Ser Met Gly Trp His Arg Gln Gly Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Leu Ile Gly Ser Ala Gly Ser Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Phe
                85                  90                  95

Tyr Tyr Asp Ser Arg Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110

Ser Ser

<210> 389
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 389
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ile Thr Ser Ser Val Tyr
            20                  25                  30

Ser Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ser Ser Ser Asp Gly Ser Thr His Tyr Val Asp Ser Val Arg
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Asn Arg Gly Phe Ala Gly Ala Pro Ser Tyr Trp Gly Gln Gly Thr
            100                 105                 110


Leu Val Thr Val Ser Ser
        115


<210> 390
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 390
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Ser Ser Ile Phe Ser Ile Ser
            20                  25                  30


Ser Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Ala Ile Thr Ser Phe Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Met Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
```

85 90 95

Ala Arg Thr Met Gly Arg Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 391
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 391
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Phe Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Phe Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg His Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 392
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 392
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Ser Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 393
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 393
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Glu Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 394
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 394

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Pro Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ser
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Arg Gly Ser Ser Met Ser Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 395
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 395
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30
```

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Ser Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Lys Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 396
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 396
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ile Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Met Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 397
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 397
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Leu Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Thr Val Gln Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 398
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 398
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Tyr Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Tyr Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 399
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 399
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Ser Tyr Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 400
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 400
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Leu Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 401
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 401

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ile Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Ile Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Arg Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 402
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 402
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Ile Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 403
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 403
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Lys Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Thr Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Ser Ala Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 404
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 404
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Leu Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Ile Val Arg Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 405
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 405
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Tyr Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 406
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 406
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Gly Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg His Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 407
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 407
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Phe Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 408
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 408

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Val Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 409
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 409
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Arg Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Lys Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 410
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 410
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Arg Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

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Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Tyr Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 411
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 411
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Arg Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Gly Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 412
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 412
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Ser Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 413
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 413
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Asn Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Gly Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 414
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 414
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Asn Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 415
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 415

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser His Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 416
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 416
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ile Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Glu Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Ala Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 417
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 417
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 418
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 418
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Arg Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Pro
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Val Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Pro Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 419
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 419
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Arg Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Val Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 420
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 420
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Glu Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 421
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 421
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ile Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Gly Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Arg Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 422
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 422

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Asp Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Lys Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Arg Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 423
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 423
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asn Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Gln Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 424
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 424
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Leu Ala Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Ile Val Ser Gly Ser Ser Met Gly Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 425
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 425
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Lys Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Thr Val Ser Gly Ala Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 426
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 426
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Asn Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val His Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 427
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 427
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Leu Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Met Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 428
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 428
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Ile Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 429
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 429

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Asn Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Thr Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Arg Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 430
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 430
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Asn Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly His Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 431
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 431
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser His Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Arg Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Gly Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 432
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 432
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Gln Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Gln Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Thr Lys Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 433
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 433
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Arg Ile Asn
20 25 30

Gly Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Pro
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Ala Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Ala Ser Gly Thr Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 434
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 434
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Val Ile Asn
            20                  25                  30


Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Lys Ser Ala Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Asn Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 435
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 435
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Asn Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Arg Gly Ser Ser Gln Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 436
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 436

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Lys Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Ile Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Leu Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 437
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 437
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30
```

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Thr Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Arg Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 438
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 438
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Val Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Leu Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 439
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 439
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Asn Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Tyr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Thr Val Arg Gly Ser Ser Gln Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 440
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 440
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Thr Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Val Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 441
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 441
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Gly Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Arg Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 442
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 442
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
35 40 45

Ala Gly Ile Ser Ser Asp Gln Ser Lys Val Tyr Ala Asp Ser Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 443
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 443

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Gly Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Ser Ala Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 444
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 444
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Arg Ser Ile Asn
            20                  25                  30
```

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe His Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 445
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 445
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Ile Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Leu Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 446
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 446
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Asp Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 447
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 447
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Lys Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Asn Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 448
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 448
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Asn Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asn Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Thr Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 449
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 449
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Arg Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Lys Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 450
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 450

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Lys Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 451
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 451
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Leu Thr Ser Ser Ile Asn
            20                  25                  30
```

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Gln Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Asn Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 452
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 452
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Glu Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ala Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 453
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 453
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Thr Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Leu Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Thr Val Asn Leu Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 454
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 454
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Tyr Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Thr Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 455
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 455
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Val Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Lys Val Ser Gly Ser Ser Ala Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 456
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 456
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Val Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Tyr Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 457
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 457

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Lys Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 458
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 458
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30
```

```
Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Lys Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 459
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 459
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
        35                  40                  45

Ala Gly Ile Ser Ser Asp Asn Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Arg Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 460
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 460
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Lys Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Gln Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Thr Ser Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 461
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 461
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Phe Leu Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 462
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 462
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Phe Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 463
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 463
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Phe Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Leu Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Leu Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 464
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 464

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Arg Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Asn Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Phe Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 465
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 465
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Asn Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Gln Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 466
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 466
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Val Asp Ser Val Lys
50 55 60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Pro Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 467
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 467
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Val Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Thr Leu Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 468
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 468
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Gly Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ala Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 469
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 469
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Thr Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Thr Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 470
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 470
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Arg Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Asn Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Thr Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 471
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 471

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Arg Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Thr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Arg Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 472
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 472
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Lys Ser Ile Asn
            20                  25                  30
```

```
Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Arg Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Ser Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115
```

<210> 473
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 473

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Arg Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asn Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 474
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 474
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Pro Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 475
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 475
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Leu Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg His Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 476
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 476
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Lys Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 477
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 477
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Leu Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Thr Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 478
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 478

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Thr Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe His Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 479
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 479
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30
```

```
Ala Phe Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Arg Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 480
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 480
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Arg Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Leu Tyr Leu Asp Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Leu Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 481
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 481
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Asn Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Arg Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Ser Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 482
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 482
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Asn Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Arg Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 483
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 483
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ala Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Tyr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 484
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 484
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Val Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Tyr Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 485
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 485

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Arg Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Leu Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Leu Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 486
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 486
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Asn Ser Ile Asn
            20                  25                  30
```

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Lys Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Tyr Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 487
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 487
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Ser Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 488
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 488
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Arg Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Gln Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Arg Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 489
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 489
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Pro Ser Gly Ser Thr Ser Asn Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Pro
35 40 45

Ala Gly Ile Ser Ser Asp Gly Thr Lys Ile Tyr Ala Asp Ser Ala Lys
50 55 60

Val Pro Phe Thr Ile Thr Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Thr Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 490
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 490
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Lys Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Arg Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ala Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 491
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 491
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Leu Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Leu Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Ile Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 492
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 492

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Arg Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Ala Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 493
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 493
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30
```

```
Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Ser Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 494
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 494
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Val Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Thr Lys Val Tyr Arg Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Gln Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 495
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 495
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Asn Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Thr Val Arg Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 496
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 496
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Lys Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 497
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 497
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Trp Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 498
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 498
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Lys Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Arg Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 499
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 499

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Phe Lys Gln Gly Glu Leu Pro
        35                  40                  45

Ala Gly Ile Ser Pro Asp Gly Thr Lys Ala Tyr Ala Asp Ser Ala Lys
    50                  55                  60

Val Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe His Thr Val Cys Gly Thr Ser Met Gly Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 500
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 500
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ala Ile Asn
            20                  25                  30

```
Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Val Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Gln Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115
```

<210> 501
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 501

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Pro Ser Ser Ile Asn
            20                  25                  30

Ala Tyr Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 502
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 502
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Ser Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Thr Val Arg Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 503
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 503
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Arg Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Gln Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 504
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 504
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Val Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Ser Ser Ala Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Leu Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 505
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 505
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe His Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 506
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 506

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Ser Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Arg Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 507
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 507
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30
```

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Leu Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 508
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 508
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Val Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Gly Ser Val Lys
50 55 60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Tyr Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 509
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 509
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
        35                  40                  45


Ala Gly Ile Ser Ser Asp Asn Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Thr Val Gly Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 510
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 510
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Tyr Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Ala Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr His Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 511
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 511
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Val Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Ser Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Thr Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 512
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 512
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Lys Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Pro
35 40 45

Ala Gly Ile Ser Ser Asn Gly Thr Lys Val Tyr Ala Asp Ser Ala Lys
50 55 60

Val Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Leu Gly Thr Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 513
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 513

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Leu Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 514
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 514
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Val Ser Ser Ile Asn
            20                  25                  30
```

```
Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Lys Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Gly Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115
```

<210> 515
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 515

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Leu Val Tyr Ala Asp Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Ala Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 516
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 516
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Leu Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Ile Leu Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 517
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 517
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Gln Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 518
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 518
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Tyr Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Gln Ser Met Gly Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 519
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 519
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Val Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Thr Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly His Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 520
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 520

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
        35                  40                  45

Ala Gly Ile Ser Lys Asp Gly Ser Lys Val Tyr Ala Asp Ser Ala Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Ser Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 521
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 521
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Pro Ser Ser Ile Asn
            20                  25                  30

```
Ala Tyr Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Tyr Ser Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 522
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 522
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Pro Ser Ser Ile Asn
            20                  25                  30

Ala Tyr Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Gln Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 523
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 523
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Arg Trp Thr Arg Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 524
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 524
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ala Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 525
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 525
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 526
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 526
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Gln Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Ile Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 527
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 527

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Glu Ala Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 528
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 528
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Arg Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
            20                  25                  30
```

```
Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Val Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Arg Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115


<210> 529
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 529
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Gly Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Arg Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 530
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 530
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Val Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Ile Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 531
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 531
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Leu Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 532
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 532
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 533
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 533
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Gly Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 534
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 534

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Gln Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asn Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 535
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 535
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Asn Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Arg Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr His Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 536
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 536
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Thr Tyr Ile Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 537
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 537
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Lys Ser Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Lys Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 538
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 538
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Thr Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 539
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 539
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser His Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asn Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Ala Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 540
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 540
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Val Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 541
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 541

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Ala Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Val Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 542
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 542
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30

```
Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala His Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115
```

<210> 543
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 543

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ile Tyr Ile Asp Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 544
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 544
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Arg Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Gly Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 545
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 545
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser His Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Pro Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Asp Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 546
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 546
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Ser Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Thr Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 547
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 547
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Ser Val Ser Phe Leu
20 25 30

Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Ala Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 548
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 548

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Leu Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Gly Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 549
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 549
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30
```

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ile Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 550
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 550
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala His Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 551
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 551
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

```
                85                  90                  95

Ala Tyr Arg Trp Ile Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115
```

<210> 552
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 552

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Ile Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110
```

Val Thr Val Ser Ser
        115


<210> 553
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 553
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Val Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Met Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 554
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 554
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Arg Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 555
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 555

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Ser Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 556
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 556
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asn Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Asn Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 557
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 557
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Arg Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asn Gly Ser Thr Thr Tyr Ile Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Tyr Arg Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 558
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 558
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Lys Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Ser Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 559
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 559
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Arg Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Arg Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Lys Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 560
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 560
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Met Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp His Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 561
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 561
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Gly Val Arg Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Pro Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Arg Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 562
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 562

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Gly Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Met Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 563
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 563
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val His Phe Leu
            20                  25                  30
```

```
Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Thr Arg Tyr Arg Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115
```

<210> 564
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 564

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 565
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 565
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Phe Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 566
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 566
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 567
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 567
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 568
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 568
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ser Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Ala Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 569
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 569

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Leu Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp His Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 570
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 570
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30
```

```
Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Gly Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115
```

<210> 571
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 571

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Tyr Ser Ser Val Ser Arg Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Asn Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 572
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 572
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Thr Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 573
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 573
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Leu Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Ala Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 574
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 574
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Arg Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 575
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 575
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ile Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 576
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 576

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Leu Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 577
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 577
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30
```

```
Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Ser Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115


<210> 578
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 578
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Lys Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Val Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 579
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 579
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Val Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Gly Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Thr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 580
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 580
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Val Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 581
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 581
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Gly Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Ala Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 582
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 582
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ser Val Lys Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Gly Asp Gly Ser Thr Thr Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 583
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 583

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Thr Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Leu Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 584
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 584
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Gln Leu
            20                  25                  30
```

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Phe Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Thr Arg Gly Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 585
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 585
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ser Tyr Ile Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 586
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 586
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Lys Ser Ser Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Ala Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 587
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 587
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ala Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 588
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 588
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Pro Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 589
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 589
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Gln Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 590
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 590

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Asn Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Lys Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 591
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 591
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
            20                  25                  30
```

```
Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Arg Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115
```

<210> 592
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 592

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Lys Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 593
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 593
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 594
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 594
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Leu Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 595
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 595
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Asn Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 596
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 596
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Lys Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 597
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 597

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Thr Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Lys Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 598
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 598
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30
```

```
Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Gly Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Thr Arg Val Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115
```

<210> 599
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 599

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Phe Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 600
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 600
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Thr Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Phe Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 601
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 601
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Leu Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Val Ser Ser Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 602
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 602
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly His Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr His Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 603
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 603
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Phe Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Arg Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 604
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 604

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Gly Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 605
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 605
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Met
            20                  25                  30
```

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Ala Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Thr Arg Ser Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 606
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 606
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Ser Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Ser Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 607
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 607
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Thr Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Gly Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 608
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 608
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Lys Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 609
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 609
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Thr Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Phe Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 610
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 610
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Met
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Val Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 611
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 611

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Asn Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Ala Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 612
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 612
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Asn Ser Ser Val Ser Lys Leu
            20                  25                  30
```

```
Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ala Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115
```

<210> 613
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 613

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Lys Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Leu Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 614
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 614
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Gln Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Phe Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Arg Trp Thr Arg Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 615
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 615
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Met
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Leu Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 616
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 616
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Arg Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 617
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 617
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 618
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 618

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Arg Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Gln Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 619
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 619
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30
```

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Thr Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Arg Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 620
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 620
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30

Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Lys Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Met Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 621
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 621
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Ser Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 622
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 622
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Pro Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 623
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 623
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Asn Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr His Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Leu Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 624
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 624
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Leu Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Glu Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 625
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 625

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile His Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 626
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 626
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Val Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 627
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 627
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30

Ser Val Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 628
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 628
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Gln Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 629
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 629
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Arg Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Leu Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 630
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 630
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Met Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Leu Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 631
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 631
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Lys Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 632
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 632

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30


Ser Ser Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Leu Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Ser Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 633
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 633
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30
```

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 634
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 634
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Thr Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 635
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 635
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Thr Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser His Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 636
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 636
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Gln Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Tyr Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 637
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 637
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Arg Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Leu Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 638
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 638
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ala Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 639
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 639

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Glu Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 640
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 640
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ile Asp Gly Ser Thr Asp Tyr Ile Lys Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 641
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 641
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Lys Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Lys Asp Tyr Ile Asp Ser Val Lys
50 55 60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 642
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 642
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Pro Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 643
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 643
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Arg Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg His Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 644
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 644
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile His Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Arg Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 645
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 645
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Ile Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ile Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp His Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 646
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 646

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
            20                  25                  30


Ser Val Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asn Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Asn Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115
```

<210> 647
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 647

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
            20                  25                  30
```

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 648
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 648
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Tyr Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Thr Arg Arg Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 649
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 649
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly His Ser Val Ser Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Ala Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 650
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 650
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Arg Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Gly Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 651
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 651
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asn Gly Ser Thr Asp Tyr Tyr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Arg Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 652
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 652
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Arg Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ser Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 653
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 653

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Val Ser Ala Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Glu Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 654
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 654
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Arg Leu
            20                  25                  30

```
Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Arg Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Thr Arg Ser Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115
```

<210> 655
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 655

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Ser Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Ile Tyr Ile Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 656
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 656
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asn Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 657
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 657
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Ser Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 658
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 658
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Lys Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Arg Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Thr Tyr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 659
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 659
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Arg Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Val Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Leu Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 660
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 660

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Lys Phe Leu
            20                  25                  30


Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Asp Tyr Ile Leu Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Glu Trp Thr Thr Arg Tyr Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115
```

<210> 661
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 661

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Arg Leu
            20                  25                  30
```

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Val Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Thr Arg Leu Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 662
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 662
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Ser Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Phe Asn Glu Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Pro Ala Ala Gly Ser Pro Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 663
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 663
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Ile Asn
20 25 30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Glu Val Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Thr Val Asp Gly Ser Pro Leu Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 664
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 664
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Asp Ser Asn Val Tyr Tyr Glu Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Lys Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 665
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 665
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Gln Thr Tyr Arg Val Asn
            20                  25                  30


Ala Phe Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Ser Ala Gly Ser Gly Thr Glu Met Ser Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 666
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 666
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Glu Ser Thr Leu Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Gly Ser Leu Ser Gly Ser Ser Thr Thr Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 667
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 667

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ala Ser Leu Thr Asn
            20                  25                  30


Ala Thr Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Asp Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Gly Ser Val Ser Gly Ser Trp Thr Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 668
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 668
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Tyr Pro Ser Leu Asn Asn
            20                  25                  30
```

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Gln Val Tyr Gly Ala Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Leu Val Ser Gly Ser Ser Met Ser Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 669
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 669
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ser Ser Thr Ile Asn
            20                  25                  30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Gly Ser Gly Thr Ser Lys Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 670
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 670
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Tyr Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Asn Met Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Ser Asn Met Ser Gly Thr Thr Arg Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 671
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 671
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Val Asn
20 25 30

Ala Leu Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Pro Gly Ser Ala Met Gly Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 672
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 672
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Leu Ser Asn
            20                  25                  30


Ala Val Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Ser Ala Glu Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Ala Glu Ser Gly Ser Ser Met Gly Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 673
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 673
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Thr Asn
20 25 30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Asp Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Leu Tyr Gly Ser Ser Arg Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 674
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 674

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Leu Thr Ser Thr Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Asp Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Ser Pro Phe Ser Gly Ser Asp Thr Gly Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 675
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 675
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Val Ser Pro Ser Lys Asn
            20                  25                  30
```

```
Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Ala Val Tyr Val Gly Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Ser Thr Phe Ser Gly Ser Ser Ile Ser Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 676
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 676
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Val Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Tyr Val Tyr Ser Glu Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Leu Ala Gly Ser Glu Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 677
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 677
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Thr Met Asn Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Ser Ser His Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Gly Val Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 678
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 678
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Lys Ile Asn
20 25 30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Ser Ser Ile Val Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Pro Gly Ala Gly His Ser Asn Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 679
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 679
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Gln Thr Thr Ala Leu Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Glu Val Asn Thr Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Arg Ala Ser Gly Thr Ala Met Ser Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 680
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 680
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ala Thr Ser Ser Ile Asn
20 25 30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Leu Ser Ser Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Thr Ser Ala Ser Gly Thr Asp Leu Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 681
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 681

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Thr Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Asn Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Ser Ala Asn Gly Ser Ser Lys Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 682
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 682
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30
```

```
Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Arg Val Tyr Phe Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Lys Thr Ile Ala Gly Ala Gly Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115
```

<210> 683
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 683

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Leu Val Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Leu Val Tyr Ala Glu Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Tyr Gly Ser Gly Ser Ser Leu Ser Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 684
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 684
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Leu Asn Asn
            20                  25                  30


Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Val Val Tyr Val Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Tyr Phe Arg Thr Val Pro Gly Ala Ser Met Lys Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 685
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 685
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Pro Val Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Asp Gly Ser Ala Ile Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 686
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 686
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Thr Thr Ser Ser Met Asn
            20                  25                  30


Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Leu Tyr Asp Glu Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Lys Gly Ser Gly Gly Ser Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 687
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 687
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Glu Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Tyr Ser Lys Leu Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Arg Gly Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 688
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 688

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Thr Ile Asn
            20                  25                  30


Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Ser Ser Lys Val Tyr Thr Glu Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Pro Gly Pro Gly Ser Gln Met Ala Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 689
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 689
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Tyr Ser Met Asn
            20                  25                  30
```

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Gln Val Tyr Val Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Thr Val Ala Gly Ser Ala Ser Gly Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 690
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 690
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Pro Ser Ser Ile Asn
            20                  25                  30

Ala Tyr Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ser Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Tyr Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 691
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 691
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Thr Ile Asn
20 25 30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Ile Asn Leu Lys Gly Ser Ser Met Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 692
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 692
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Met Val Thr Gly Ser Tyr Gly Gly Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 693
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 693
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ile Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Ser Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Lys Ser Ser Tyr Gly Leu Pro Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 694
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 694
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Gln Val Asn Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Gln Val Tyr Tyr Gly Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Lys Thr Val Ser Gly Gln Ser Leu Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 695
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 695

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ala Ser Phe Asn
            20                  25                  30


Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Thr Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Thr Gly Arg Ala Ala Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 696
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 696
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Pro Leu Ser Ile Asn
            20                  25                  30
```

```
Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Ser Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Gly Pro Ala Ile Gly Ala Ser Arg Thr Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115
```

<210> 697
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 697

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Thr Phe Ile Asn
            20                  25                  30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Glu Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ala Pro Lys Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 698
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 698
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Arg Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe His Thr Val Ser Gly Ser Ser Met Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 699
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 699
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Glu Thr Asp Thr Ile Asn
20 25 30

Ala Val Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Glu Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Arg Leu Glu Gly Tyr Ser Asn Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 700
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 700
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Pro Ile Asn
            20                  25                  30


Ala Ile Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Val Val Thr Thr Glu Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Gly Ser Gly Ser Ser Met Gly Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 701
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 701
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Ile Thr Ser Ser Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser His Val His Gln Glu Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Thr Thr Val Thr Gly Ser Ser Met Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 702
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 702

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Arg Tyr Ser Val Ser Asn Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser Thr Val Tyr Val Glu Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Tyr Trp Thr Glu Arg Arg Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 703
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 703
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asp
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Met Ser Thr Val Ser Val Leu
            20                  25                  30
```

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Ser Trp Asp Asp Ala His Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 704
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 704
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Asp Ser Tyr Val Ser Leu Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Val Asp Gly Ser Thr His Tyr Val Ala Ser Val Lys
50 55 60

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Met Thr Arg Leu Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 705
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 705
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Asp Ser Ala Val Ser Val Leu
            20                  25                  30


Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Thr Asp Gly Ser Lys His Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
```

85 90 95

Ala Tyr Asp Trp Ala Asp Ala Gln Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 706
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 706
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser His Ser Ser Val Thr Ser Leu
20 25 30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Tyr Asp Gly Ser Lys Tyr Tyr Ala Glu Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Ser Trp Thr Asp Arg Leu Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 707
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 707
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Asp Ser Val Val Lys Phe Leu
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asn Gly Ser Arg Thr Tyr Met Glu Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Arg Trp Ala Thr Arg Leu Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 708
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 708
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Asp Pro Ser Val Trp Asn Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Pro Asp Gly Ser Thr Asp Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Lys Trp Ser Asn Arg Leu Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 709
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 709

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Ser Val Met Leu Leu
            20                  25                  30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Pro Asn Gly Ser Ala Val Tyr Thr Glu Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Gly Trp Lys Thr Arg Gln Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 710
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 710
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Ser Ser Pro Val Ser Asn Leu
            20                  25                  30

```
Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Pro Asp Gly Ser Thr Ala Tyr Met Glu Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Pro Asn Arg Arg Gly Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115
```

<210> 711
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 711

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Trp Arg Ser Val Leu Leu Leu
            20                  25                  30

Ser Val Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Asn Asp Gly Ser Thr Asp Tyr Ile Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Asp Trp Thr Thr Arg Gln Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 712
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 712
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Ser Ser Ser Val Gln Tyr Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Asp Gly Ser Ala Val Tyr Phe Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Asn Trp Ser Tyr Ala Gln Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 713
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 713
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Ser Val Ser Leu Leu
20 25 30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Gly Gly Ser Thr His Tyr Ile Glu Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Asn Trp Thr Asp Ser Leu Gln Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 714
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 714
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Leu Ser Ser Val Ser Asn Leu
            20                  25                  30


Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Thr Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Ser Trp Thr Thr Ser Leu Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 715
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 715
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Met Tyr Ser Val Ser Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Asn Glu Gly Ser Thr Tyr Tyr Met Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Lys Trp Arg Ser Arg Ser Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 716
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 716

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Lys Ser Ser Val Ser His Leu
            20                  25                  30


Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ala Asp Gly Ser His Val Tyr Thr Asn Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Ser Gln Thr Thr Arg Asp Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 717
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 717
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Tyr Thr Ser Val Leu Asp Leu
            20                  25                  30
```

```
Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Asp Asp Gly Ser Arg Tyr Tyr Thr Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Arg Trp Thr Ala Arg Asp Thr Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115


<210> 718
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 718
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Met Ser Asp Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Ala Glu Gly Ser Thr Leu Tyr Met Glu Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Thr Ser Arg Leu Ser Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 719
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 719
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Glu Ser Ser Val Ser Phe Leu
20 25 30

Ser Ser Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Ser Trp Thr Thr Arg Ser Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 720
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 720
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Asp Ser Val Ser Leu Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ala Asn Gly Ser Thr Ser Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Asn Trp Thr Ser Arg Tyr Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115

<210> 721
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 721
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Asp Val Trp Tyr Leu
            20                  25                  30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Asp Asp Gly Ser Arg His Tyr Ile Glu Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Ser Trp Lys Thr Arg Phe Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 722
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 722
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Lys Ser Ala Val Ala Phe Leu
20 25 30

Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Pro Asp Gly Ser Thr Val Tyr Ile Glu Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Ser Trp Thr Thr Arg Tyr Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 723
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 723

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Phe Ser Ala Val Ala Tyr Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Asp Asp Gly Ser Thr Val Tyr Val Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Glu Trp Thr Asn Ala Leu Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 724
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 724
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Val Tyr Ser Val Tyr Asp Leu
            20                  25                  30

Ser Thr Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Asp Asp Gly Ser Thr Val Tyr Phe Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Ser Trp Ile Thr Arg Ser Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 725
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 725
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Asp Ser Val Ser Phe Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Asp Glu Gly Ser Thr Val Tyr Ile Gly Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Ser Trp Thr Thr Arg Arg Gln Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 726
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 726
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Ser Ser Ser Val Ser Leu Leu
20 25 30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Asp Asp Gly Ser Ile Val Tyr Met Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Ser Trp Ile Thr Arg Ser Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 727
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 727
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Ala Asp Ser Val Ser Phe Leu
20 25 30

Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Asp Asp Gly Ser Lys His Tyr Phe Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Glu Glu Ser Arg Gln Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
        115


<210> 728
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 728
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Ala Ser Ser Val Thr Leu Leu
            20                  25                  30


Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Thr Asp Gly Ser Thr Asp Tyr Leu His Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Ala Tyr Thr Trp Thr Thr Arg Leu Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Thr Ser
        115


<210> 729
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 729
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Ala Asp Ser Val Ser Phe Leu
20 25 30

Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Asp Asp Gly Ser Lys His Tyr Phe Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Arg Trp Glu Glu Ser Arg Gln Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 730
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 730

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Ser Val Trp Leu Leu
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
        35                  40                  45

Ala Gly Ile Ser Tyr Asp Gly Ser Thr Val Tyr Val Glu Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Ala Tyr Ser Trp Thr Thr Arg Gln Pro Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115

<210> 731
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 731
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Ile Leu
            20                  25                  30

Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Asp Asp Gly Ser Thr Val Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Val Trp Gly Thr Arg Leu Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 732
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 732
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Ala Val Ser Asn Leu
20 25 30

Ser Ile Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Asp Asp Gly Ser Thr Val Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Glu Trp Thr Asn Ala Leu Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 733
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 733
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ala Val Ser Met Leu
20 25 30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Asp Asp Gly Ser Gln Val Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Ala Tyr Arg Trp Glu Asp Ala Leu Thr Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 734
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 734
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Met Thr Val Phe Phe Leu
20 25 30

Ser Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Val Asp Gly Ser Thr Val Tyr Ser Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Ser Trp Thr Thr Arg Tyr Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 735
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 735
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gln Tyr Ser Val Thr Phe Leu
20 25 30

Ser Val Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Asp Asp Gly Ser Asn Val Tyr Ile Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Ser Trp Ile Asp Ser Leu Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 736
<211> 117
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 736
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Glu Thr Val Ser Phe Leu
20 25 30

Ser Leu Ala Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Thr Asp Gly Ser Thr Val Tyr Phe Val Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Ala Tyr Ser Trp Thr Thr Pro Arg Ala Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 737
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 737

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
            20                  25                  30


Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Thr Ser Thr Arg Asp Gly Asn Val Asp Tyr Ala Glu Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95


Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
            100                 105                 110


Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 738
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 738
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Val Val Ser Gly Arg Thr Asp Ser Trp Tyr
            20                  25                  30
```

Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
        35                  40                  45

Ala Gly Val Ser Trp Ser Tyr Gly Asn Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ala Ser Arg Asp Asn Ala Lys Asn Thr Ala Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Asn Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Arg Val Ser Arg Glu Val Ile Pro Thr Arg Trp Asp Leu Tyr
            100                 105                 110

Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125

<210> 739
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 739
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Val Ser Cys Val Val Ser Arg Thr Ile Ile Ser Ile Asn
            20                  25                  30

Ala Met Thr Trp Tyr His Gln Ala Pro Gly Lys Arg Arg Glu Leu Val
        35                  40                  45

Ala Ile Ile Thr Ser Gly Gly Glu Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Ala Tyr Leu
65 70 75 80

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Asn
85 90 95

Val Val Pro Pro Leu Gly Ser Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 740
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 740
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Arg Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ser Ala Ser Ala Arg Thr Leu Arg Leu Tyr
20 25 30

Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Gly Ile Gly Arg Ser Glu Arg Thr Tyr Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Thr Val Phe Leu
65 70 75 80

Glu Met Asn Asp Leu Glu Pro Glu Asp Thr Ala Val Tyr Phe Cys Ala

85 90 95

Leu Thr Phe Gln Thr Thr Asp Met Val Asp Val Pro Thr Thr Gln His
100 105 110

Glu Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 741
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 741
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
20 25 30

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr His Asp Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Val Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 742
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 742
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
            20                  25                  30


Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Thr Ser Thr Arg Asp Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asp Thr Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95


Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
            100                 105                 110


Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 743
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 743
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Tyr Gln Met Ala Trp
20 25 30

Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val Gly Thr Ile Ser
35 40 45

Ser Gly Asp Ser Thr Trp Tyr Thr Asn Ser Val Lys Gly Arg Phe Ala
50 55 60

Ile Ser Arg Asp Ser Ala Arg Asn Thr Val Tyr Leu Gln Met Asn Asp
65 70 75 80

Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala Ala Leu Tyr
85 90 95

Tyr Arg Asp Ser Arg Arg Ala Ala Asp Tyr Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 744
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 744

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Arg Val Gln Ala Gly Glu
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ser Thr Ser Thr Arg Thr Leu Lys Leu Tyr
            20                  25                  30


Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Asp Phe Val
        35                  40                  45


Ala Gly Ile Gly Arg Ser Glu Arg Ile Tyr Tyr Ile Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Thr Val Phe Leu
65                  70                  75                  80


Glu Met Asn Asp Leu Glu Pro Glu Asp Thr Ala Val Tyr Phe Cys Ala
                85                  90                  95


Ala Thr Phe Gln Thr Ser Asp Asn Val Gly Val Pro Thr Val Gln His
            100                 105                 110


Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125


<210> 745
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 745
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
            20                  25                  30
```

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr His Asp Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Thr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 746
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 746
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
20 25 30

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Phe Thr Arg Asp Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Thr Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 747
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 747
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
20 25 30

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr His Asp Gly Asn Thr Asp Tyr Ala Asp Ser Leu Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn

85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 748
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 748
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Tyr Gln Met Ala Trp
20 25 30

Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val Gly Thr Ile Ser
35 40 45

Ser Gly Asp Ser Thr Trp Tyr Thr Asn Ser Leu Lys Gly Arg Phe Ala
50 55 60

Ile Ser Arg Asp Ser Ala Arg Asp Thr Val Tyr Leu Gln Met Asn Asp
65 70 75 80

Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Tyr
85 90 95

Tyr Arg Asp Ser Arg Arg Ala Ala Asp Tyr Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 749
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 749
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Ser Ile Val Thr Ile Asn
            20                  25                  30

Ala Met Thr Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Glu Leu Val
        35                  40                  45

Ala Ile Ile Thr Ser Gly Gly Glu Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Ala His Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Asn Pro Glu Asp Thr Gly Val Tyr Tyr Cys Asn
                85                  90                  95

Val Val Pro Pro Leu Gly Ser Trp Gly Gln Gly Thr Gln Val Thr Val
            100                 105                 110

Ser Ser

<210> 750
<211> 114
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 750
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Val Ser Arg Ser Ile Val Ser Ile Lys
20 25 30

Ser Met Thr Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Glu Leu Val
35 40 45

Ala Leu Ile Thr Ser Gly Gly Glu Thr Asn Tyr Ser Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Asn
85 90 95

Val Val Pro Pro Leu Gly Ser Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 751
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 751

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Glu Thr Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Ser Thr Phe Arg His His
            20                  25                  30


Ala Met Ala Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45


Ser Ala Ile Asn Asp His Gly Asp Arg Thr Lys Tyr Leu Asp Ser Val
    50                  55                  60


Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Asp Asn Met Val Tyr
65                  70                  75                  80


Leu Gln Met Thr Asp Leu Arg Pro Glu Asp Thr Ala Asn Tyr Ser Cys
                85                  90                  95


Ala Ala Gly Pro Leu Val Asp Tyr Leu Glu Thr Thr Pro Leu Val Tyr
            100                 105                 110


Thr Tyr Trp Gly His Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125


<210> 752
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 752
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
            20                  25                  30
```

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr His Asp Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 753
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 753
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
20 25 30

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr His Asp Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 754
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 754
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Val Ser Ile Phe Ser Val Asn
20 25 30

Ala Val Asp Trp Tyr Arg Gln Ser Pro Gly Lys Glu Arg Glu Leu Val
35 40 45

Ala Ile Met Thr Ser Asp Gly Ser Thr Asn Tyr Gly Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn

85 90 95

Thr Val Pro Pro Arg Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
100 105 110

Ser

<210> 755
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 755
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
20 25 30

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr Arg Asp Gly Asn Ile Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Ser Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 756
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 756
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Tyr Gln Leu Ala Trp
            20                  25                  30


Phe Arg Gln Ala Pro Glu Lys Val Arg Glu Phe Val Gly Thr Ile Ser
        35                  40                  45


Ser Gly Asp Ser Thr Trp Tyr Thr Asn Ser Val Lys Gly Arg Phe Ala
    50                  55                  60


Ile Ser Arg Asp Ser Ala Arg Asn Thr Val Tyr Leu Gln Met Asn Asp
65                  70                  75                  80


Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Tyr
                85                  90                  95


Tyr Arg Asp Ser Arg Arg Ala Ala Asp Tyr Pro Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 757
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 757
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Tyr His Met Ala Trp
20 25 30

Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val Gly Thr Ile Ser
35 40 45

Ser Gly Asp Ser Thr Trp Tyr Thr Asn Ser Val Lys Gly Arg Phe Ala
50 55 60

Ile Ser Arg Asp Ser Ala Arg Asn Thr Ala Tyr Leu Gln Met Asn Asp
65 70 75 80

Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Tyr
85 90 95

Tyr Gly Asp Ser Arg Arg Ala Ala Asp Tyr Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 758
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 758

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
            20                  25                  30


Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Thr Ser Thr His Asp Gly Asn Thr Asp Tyr Thr Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95


Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
            100                 105                 110


Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 759
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 759
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
            20                  25                  30
```

Thr Met Asp Trp Tyr Arg Gln Thr Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr Arg Asp Ala Asn Thr Asp Tyr Ala Gly Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asp Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 760
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 760
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Tyr Asn Met Ala Trp
20 25 30

Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val Gly Thr Ile Thr
35 40 45

Ser Ala Asp Ser Thr Trp Tyr Thr Asn Ser Val Lys Gly Arg Phe Ala
50 55 60

```
Ile Thr Gln Asp Ser Ala Arg Asn Thr Val Tyr Leu Gln Met Asn Asp
65                  70                  75                  80


Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Tyr
                85                  90                  95


Tyr Gly Asp Ser Arg Arg Ala Ala Asp Tyr Pro Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 761
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 761
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Tyr Gln Met Ala Trp
            20                  25                  30


Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val Gly Thr Ile Ser
        35                  40                  45


Ser Gly Asp Ser Thr Trp Tyr Thr Asn Ser Val Lys Gly Arg Phe Ala
    50                  55                  60


Ile Ser Arg Asp Ser Ala Arg Thr Thr Val Tyr Leu Gln Met Asn Asp
65                  70                  75                  80


Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Tyr
```

85 90 95

Tyr Arg Asp Ser Trp Arg Ala Ala Asp Tyr Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 762
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 762
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Thr Gly Arg Tyr His Leu Ala Trp
20 25 30

Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val Gly Thr Ile Thr
35 40 45

Ser Ala Asp Ser Thr Trp Tyr Thr Asn Ser Val Lys Gly Arg Phe Ala
50 55 60

Ile Thr Arg Asp Ser Ala Arg Asn Thr Val Tyr Leu Gln Met Asn Asp
65 70 75 80

Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Tyr
85 90 95

Tyr Gly Asp Ser Arg Arg Ala Ala Asp Tyr Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 763
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 763
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Lys Leu Ser Cys Ala Asp Ser Gly Arg Ser Phe Ser Asn Tyr
            20                  25                  30

Ile Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Gly Leu Gly Trp Ser Pro Gly Asn Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Met Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Asn Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Arg Arg Gly Asp Val Ile Tyr Thr Thr Pro Trp Asn Tyr Val
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120

<210> 764
<211> 121
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 764
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
20 25 30

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr His Asp Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Leu Arg Thr Pro Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 765
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 765

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Arg Tyr Gln Met Ala Trp
            20                  25                  30

Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val Gly Thr Ile Ser
        35                  40                  45

Ser Gly Asp Ser Thr Trp Tyr Thr Asn Ser Val Lys Gly Arg Phe Ala
    50                  55                  60

Ile Ser Arg Asp Ser Ala Arg Asn Thr Val Tyr Leu Gln Met Asn Asp
65                  70                  75                  80

Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Tyr
                85                  90                  95

Tyr Arg Asp Ser Arg Arg Ala Ile Asp Tyr Pro Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 766
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 766
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Ser Ser Tyr
            20                  25                  30

```
Ala Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Arg Ile Thr Ser Gly Gly Thr Thr Asp Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
                85                  90                  95

Ala Asp Leu Thr Tyr Arg Asn Leu Leu Leu Lys Leu Pro His Tyr Trp
            100                 105                 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 767
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 767
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Ile Ala Tyr Ile Tyr
            20                  25                  30

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Thr Ser Thr His Asp Gly Ser Thr Asp Tyr Ala Asp Ser Val Lys
    50                  55                  60
```

```
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95


Ala Asp Leu Arg Thr Pro Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
            100                 105                 110


Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 768
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 768
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
            20                  25                  30


Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Thr Ser Thr Trp Asp Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
```

85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 769
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 769
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
20 25 30

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr His Asp Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Ser Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 770
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 770
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Glu
1               5                   10                  15


Ser Leu Ser Leu Ser Cys Ala Ala Ser Gly Asn Asp Phe Val Ile Thr
            20                  25                  30


Asp Met His Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Trp Val
        35                  40                  45


Ala Thr Ile Thr Arg Phe Ala Thr Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Trp Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Lys
                85                  90                  95


Ala Ile Gly Leu Arg Gly Val Pro Asp Val Asn Arg Gln Phe Glu Val
            100                 105                 110


Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 771
<211> 121
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 771
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Ile Ala Tyr Ile Tyr
20 25 30

Gly Met Gly Trp Tyr Arg Gln Ala Pro Gly Asn Gln Arg Glu Leu Val
35 40 45

Ala Ala Ile Ser Ser Gly Gly Ser Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Val Arg Thr Ser Arg Asn Leu Val Arg Ser Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 772
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 772

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Tyr His Thr Ala Trp
            20                  25                  30


Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val Gly Thr Ile Ser
        35                  40                  45


Ser Gly Asp Ser Thr Trp Tyr Thr Asn Ser Val Lys Gly Arg Phe Ala
    50                  55                  60


Ile Ser Arg Asp Ser Ala Arg Asn Thr Val Tyr Leu Gln Met Asn Asp
65                  70                  75                  80


Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Tyr
                85                  90                  95


Tyr Gly Asp Ser Arg Arg Ala Gly Asp Tyr Pro Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 773
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 773
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Ile Ala Tyr Ile Tyr
            20                  25                  30
```

```
Thr Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Thr Ser Thr His Ala Gly Asn Thr Asp Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95

Val Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120
```

<210> 774
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 774

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Ile Ala Tyr Ile Tyr
            20                  25                  30

Thr Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Thr Ser Thr His Asp Gly Asn Ser Asp Tyr Ala Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Thr Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Leu Arg Thr Pro Val Asp Arg Ile Arg Gly Asn Phe Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 775
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 775
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Tyr Ile Tyr
20 25 30

Thr Met Asp Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Thr Ser Thr Arg Asp Gly Asn Val Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn

85 90 95

Ala Asp Leu Arg Thr Ala Val Asp Leu Ile Arg Ala Asn Tyr Trp Gly
100 105 110

Leu Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 776
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 776
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Asp Ser Trp Tyr
20 25 30

Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
35 40 45

Ala Gly Val Ser Trp Ser Tyr Gly Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Arg Val Ser Arg Glu Val Ile Pro Thr Arg Trp Asp Leu Tyr
100 105 110

Asn Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 777
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 777
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Ala Arg Thr Leu Arg Leu Tyr
20 25 30

Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Gly Ile Gly Arg Ser Glu Arg Thr Tyr Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Leu Thr Phe Gln Thr Thr Asp Met Val Asp Val Pro Thr Thr Gln His
100 105 110

Glu Tyr Asp Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 778
<211> 114
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 778
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ile Val Thr Ile Asn
20 25 30

Ala Met Thr Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Glu Leu Val
35 40 45

Ala Ile Ile Thr Ser Gly Gly Glu Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Val Val Pro Pro Leu Gly Ser Trp Gly Leu Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 779
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 779

```
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Tyr His Met Ala Trp
            20                  25                  30


Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Gly Thr Ile Ser
        35                  40                  45


Ser Gly Asp Ser Thr Trp Tyr Thr Asn Ser Val Lys Gly Arg Phe Thr
    50                  55                  60


Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser
65                  70                  75                  80


Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Tyr
                85                  90                  95


Tyr Gly Asp Ser Arg Arg Ala Ala Asp Tyr Pro Tyr Trp Gly Leu Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 780
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 780
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Arg His His
            20                  25                  30
```

Ala Met Ala Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ser Ala Ile Asn Asp His Gly Asp Arg Thr Lys Tyr Leu Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Gly Pro Leu Val Asp Tyr Leu Glu Thr Thr Pro Leu Val Tyr
            100                 105                 110

Thr Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125

<210> 781
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 781
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Ser Phe Ser Asn Tyr
            20                  25                  30

Ile Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Gly Leu Gly Trp Ser Pro Gly Asn Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Arg Arg Gly Asp Val Ile Tyr Thr Thr Pro Trp Asn Tyr Val
100 105 110

Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 782
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 782
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Ser Ser Tyr
20 25 30

Ala Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Arg Ile Thr Ser Gly Gly Thr Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala

85 90 95

Ala Asp Leu Thr Tyr Arg Asn Leu Leu Leu Lys Leu Pro His Tyr Trp
100 105 110

Gly Leu Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 783
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 783
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Val Ser Ile Phe Ser Val Asn
20 25 30

Ala Val Asp Trp Tyr Arg Gln Ser Pro Gly Lys Glu Arg Glu Leu Val
35 40 45

Ala Ile Met Thr Ser Asp Gly Ser Thr Asn Tyr Asp Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Thr Val Pro Pro Arg Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser
100 105 110

Ser

<210> 784
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 784
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Asn Asp Phe Val Ile Thr
20 25 30

Asp Met His Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Trp Val
35 40 45

Ala Thr Ile Thr Arg Phe Ala Thr Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Lys
85 90 95

Ala Ile Gly Leu Arg Gly Val Pro Asp Val Asn Arg Gln Phe Glu Val
100 105 110

Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 785
<211> 121
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 785
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ala Ile Ala Tyr Ile Tyr
20 25 30

Gly Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ala Ile Ser Ser Gly Gly Ser Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Val Arg Thr Ser Arg Asn Leu Val Arg Ser Asp Tyr Trp Gly
100 105 110

Leu Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 786
<211> 532
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 786

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
            20                  25                  30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Lys Pro Leu Gly Leu Gln Ala Arg Val Val Gly Gly Gly Gly Thr Gln
    130                 135                 140

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
145                 150                 155                 160

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
                165                 170                 175

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
            180                 185                 190

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
```

```
        195                 200                 205

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
    210                 215                 220

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
225                 230                 235                 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
            260                 265                 270

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        275                 280                 285

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
    290                 295                 300

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
305                 310                 315                 320

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg
                325                 330                 335

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
            340                 345                 350

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
        355                 360                 365

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
385                 390                 395                 400
```

Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
405 410 415

Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Asp Ser Trp
420 425 430

Tyr Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe
435 440 445

Val Ala Gly Val Ser Trp Ser Tyr Gly Asn Thr Tyr Tyr Ala Asp Ser
450 455 460

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
465 470 475 480

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
485 490 495

Cys Ala Ala Arg Val Ser Arg Glu Val Ile Pro Thr Arg Trp Asp Leu
500 505 510

Tyr Asn Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser His His
515 520 525

His His His His
530

<210> 787
<211> 532
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 787
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn

```
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
            20                  25                  30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Pro Gln Ala Ser Thr Gly Arg Ser Gly Gly Gly Gly Gly Gly Thr Gln
    130                 135                 140

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
145                 150                 155                 160

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
                165                 170                 175

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
            180                 185                 190

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
        195                 200                 205
```

```
Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
    210                 215                 220

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
225                 230                 235                 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
            260                 265                 270

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        275                 280                 285

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
    290                 295                 300

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
305                 310                 315                 320

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg
                325                 330                 335

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
            340                 345                 350

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
        355                 360                 365

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
385                 390                 395                 400
```

```
Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                405                 410                 415


Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Asp Ser Trp
            420                 425                 430


Tyr Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe
        435                 440                 445


Val Ala Gly Val Ser Trp Ser Tyr Gly Asn Thr Tyr Tyr Ala Asp Ser
    450                 455                 460


Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
465                 470                 475                 480


Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
                485                 490                 495


Cys Ala Ala Arg Val Ser Arg Glu Val Ile Pro Thr Arg Trp Asp Leu
            500                 505                 510


Tyr Asn Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser His His
        515                 520                 525


His His His His
    530


<210> 788
<211> 532
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 788
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1               5                   10                  15
```

```
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
            20                  25                  30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Pro Gln Gly Ser Thr Gly Arg Ala Ala Gly Gly Gly Gly Gly Thr Gln
    130                 135                 140

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
145                 150                 155                 160

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
                165                 170                 175

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
            180                 185                 190

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
        195                 200                 205
```

```
Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
    210                 215                 220

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
225                 230                 235                 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
            260                 265                 270

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        275                 280                 285

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
    290                 295                 300

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
305                 310                 315                 320

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg
                325                 330                 335

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
            340                 345                 350

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
        355                 360                 365

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
385                 390                 395                 400
```

Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
405 410 415

Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Asp Ser Trp
420 425 430

Tyr Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe
435 440 445

Val Ala Gly Val Ser Trp Ser Tyr Gly Asn Thr Tyr Tyr Ala Asp Ser
450 455 460

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
465 470 475 480

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
485 490 495

Cys Ala Ala Arg Val Ser Arg Glu Val Ile Pro Thr Arg Trp Asp Leu
500 505 510

Tyr Asn Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser His His
515 520 525

His His His His
530

<210> 789
<211> 531
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 789
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

```
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
            20                  25                  30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Pro Pro Ala Ser Ser Gly Arg Ala Gly Gly Gly Gly Gly Thr Gln Thr
    130                 135                 140

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
145                 150                 155                 160

Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
                165                 170                 175

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
            180                 185                 190

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
        195                 200                 205
```

```
Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
    210                 215                 220

Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
225                 230                 235                 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu
            260                 265                 270

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
        275                 280                 285

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
    290                 295                 300

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
305                 310                 315                 320

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
                325                 330                 335

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn
            340                 345                 350

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
        355                 360                 365

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
    370                 375                 380

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
385                 390                 395                 400

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
```

405 410 415

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Asp Ser Trp Tyr
420 425 430

Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
435 440 445

Ala Gly Val Ser Trp Ser Tyr Gly Asn Thr Tyr Tyr Ala Asp Ser Val
450 455 460

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
465 470 475 480

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
485 490 495

Ala Ala Arg Val Ser Arg Glu Val Ile Pro Thr Arg Trp Asp Leu Tyr
500 505 510

Asn Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser His His His
515 520 525

His His His
530

<210> 790
<211> 531
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 790
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

```
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
            20                  25                  30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Pro Ile Pro Val Gln Gly Arg Ala His Gly Gly Gly Gly Thr Gln Thr
    130                 135                 140

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
145                 150                 155                 160

Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
                165                 170                 175

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
            180                 185                 190

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
        195                 200                 205

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
```

```
    210                 215                 220

Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
225                 230                 235                 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu
            260                 265                 270

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
        275                 280                 285

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
    290                 295                 300

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
305                 310                 315                 320

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
                325                 330                 335

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn
            340                 345                 350

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
        355                 360                 365

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
    370                 375                 380

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
385                 390                 395                 400

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                405                 410                 415
```

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Asp Ser Trp Tyr
420 425 430

Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
435 440 445

Ala Gly Val Ser Trp Ser Tyr Gly Asn Thr Tyr Tyr Ala Asp Ser Val
450 455 460

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
465 470 475 480

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
485 490 495

Ala Ala Arg Val Ser Arg Glu Val Ile Pro Thr Arg Trp Asp Leu Tyr
500 505 510

Asn Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser His His His
515 520 525

His His His
530

<210> 791
<211> 532
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 791
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe

```
            20                  25                  30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Ser Gly Gly Gly Gly Ser Gly Gly Val Val Gly Gly Gly Gly Thr Gln
    130                 135                 140

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
145                 150                 155                 160

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
                165                 170                 175

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
            180                 185                 190

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
        195                 200                 205

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
    210                 215                 220
```

```
Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
225                 230                 235                 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
            260                 265                 270

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        275                 280                 285

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
    290                 295                 300

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
305                 310                 315                 320

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg
                325                 330                 335

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
            340                 345                 350

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
        355                 360                 365

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
385                 390                 395                 400

Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                405                 410                 415
```

```
Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Asp Ser Trp
            420                 425                 430

Tyr Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe
        435                 440                 445

Val Ala Gly Val Ser Trp Ser Tyr Gly Asn Thr Tyr Tyr Ala Asp Ser
    450                 455                 460

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
465                 470                 475                 480

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
                485                 490                 495

Cys Ala Ala Arg Val Ser Arg Glu Val Ile Pro Thr Arg Trp Asp Leu
            500                 505                 510

Tyr Asn Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser His His
        515                 520                 525

His His His His
    530
```

<210> 792
<211> 503
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 792

```
Gln Val Gln Leu Val Glu Ser Gly Gly Ala Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Val Asn Arg Tyr
            20                  25                  30
```

```
Ser Met Arg Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
        35                  40                  45

Ala Gly Met Ser Ser Ala Gly Asp Arg Ser Ser Tyr Glu Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Arg Asn Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Asn Val Asn Val Gly Phe Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr
            100                 105                 110

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
        115                 120                 125

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
    130                 135                 140

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
145                 150                 155                 160

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
                165                 170                 175

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe
            180                 185                 190

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
        195                 200                 205

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
    210                 215                 220
```

```
Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly
225                 230                 235                 240

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
                245                 250                 255

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala
            260                 265                 270

Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala
        275                 280                 285

Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn
    290                 295                 300

Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile
305                 310                 315                 320

Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
                325                 330                 335

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe
            340                 345                 350

Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
        355                 360                 365

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
    370                 375                 380

Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val
385                 390                 395                 400

Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala
                405                 410                 415
```

```
Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln
            420                 425                 430

Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr
        435                 440                 445

Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr
    450                 455                 460

Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu
465                 470                 475                 480

Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val
                485                 490                 495

Leu His His His His His His
            500
```

<210> 793
<211> 513
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 793

```
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Asp Ser Trp Tyr
            20                  25                  30

Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
        35                  40                  45

Ala Gly Val Ser Trp Ser Tyr Gly Asn Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60
```

```
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Arg Val Ser Arg Glu Val Ile Pro Thr Arg Trp Asp Leu Tyr
            100                 105                 110

Asn Tyr Trp Gly Leu Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    130                 135                 140

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
145                 150                 155                 160

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
                165                 170                 175

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
            180                 185                 190

Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        195                 200                 205

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
225                 230                 235                 240

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
                245                 250                 255
```

```
Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
            260                 265                 270

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
        275                 280                 285

Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
    290                 295                 300

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
305                 310                 315                 320

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
                325                 330                 335

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
            340                 345                 350

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
        355                 360                 365

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
    370                 375                 380

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr
385                 390                 395                 400

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
                405                 410                 415

Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
            420                 425                 430

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
        435                 440                 445

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
```

```
    450                 455                 460

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
465                 470                 475                 480

Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
                485                 490                 495

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His His His
            500                 505                 510

His
```

<210> 794
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 794

```
Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1               5                   10                  15

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
            20                  25                  30

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
        35                  40                  45

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
    50                  55                  60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
65                  70                  75                  80
```

```
Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
                85                  90                  95

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
            100                 105                 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu
        115                 120                 125

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu
    130                 135                 140

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp
145                 150                 155                 160

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
                165                 170                 175

Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp
            180                 185                 190

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
        195                 200                 205

Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
    210                 215                 220

His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
225                 230                 235                 240

Gln Gly Thr Leu Val Thr Val Ser Ser
                245
```

<210> 795
<211> 5
<212> PRT
<213> Homo sapiens

<400> 795
Ala Pro Gly Lys Gly
1               5


<210> 796
<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 796
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
            20                  25                  30


Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45


Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60


Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80


Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95


Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110


Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125


Lys Pro Leu Gly Leu Gln Ala Arg Val Val Gly Gly Gly Gly Thr
    130                 135                 140

<210> 797
<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 797
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
20 25 30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
35 40 45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
50 55 60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65 70 75 80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
85 90 95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
100 105 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
115 120 125

Pro Gln Ala Ser Thr Gly Arg Ser Gly Gly Gly Gly Gly Gly Thr
130 135 140

<210> 798

<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 798
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
20 25 30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
35 40 45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
50 55 60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65 70 75 80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
85 90 95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
100 105 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
115 120 125

Pro Gln Gly Ser Thr Gly Arg Ala Ala Gly Gly Gly Gly Gly Thr
130 135 140

<210> 799
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 799
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
20 25 30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
35 40 45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
50 55 60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65 70 75 80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
85 90 95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
100 105 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
115 120 125

Pro Pro Ala Ser Ser Gly Arg Ala Gly Gly Gly Gly Gly Thr
130 135 140

<210> 800
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

polypeptide

<400> 800
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1               5                  10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
            20                  25                  30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
        35                  40                  45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
    50                  55                  60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65                  70                  75                  80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
                85                  90                  95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
            100                 105                 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Pro Ile Pro Val Gln Gly Arg Ala His Gly Gly Gly Gly Thr
    130                 135                 140

<210> 801
<211> 6
<212> PRT
<213> Homo sapiens

<400> 801
Gln Asp Gly Asn Glu Glu
1               5

<210> 802
<211> 9
<212> PRT
<213> Homo sapiens

<400> 802
Gln Asp Gly Asn Glu Glu Met Gly Gly
1               5


<210> 803
<211> 9
<212> PRT
<213> Homo sapiens

<400> 803
Gln Asp Gly Asn Glu Glu Met Gly Gly
1               5


<210> 804
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 804
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala
            20                  25                  30


Ser Met Ala Trp Tyr Arg Gln Ser Pro Gly Asn Glu Arg Glu Leu Val
        35                  40                  45


Ala Ser Ile Ser Ser Gly Ala Phe Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


Ala Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Gly
85 90 95

Ala Thr Phe Leu Arg Ser Asp Gly His His Thr Ile Asn Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 805
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 805
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala
20 25 30

Ser Met Gly Trp Phe Arg Gln Ser Pro Gly Asn Glu Arg Glu Leu Val
35 40 45

Ala Thr Val Ser Ser Gly Asp Phe Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Gly
85 90 95

Ala Thr Phe Val Arg Ser Asp Gly His His Thr Ile Tyr Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
        115


<210> 806
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 806
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala
            20                  25                  30


Ser Met Asp Trp Tyr Arg Gln Phe Pro Gly Asn Glu Arg Glu Ser Ile
        35                  40                  45


Ala Thr Ile Ser Ser Gly Gly Phe Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Gly
                85                  90                  95


Ala Thr Phe Leu Arg Ser Asp Gly His His Thr Ile Asn Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 807

<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 807
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala
20 25 30

Ser Met Gly Trp Phe Arg Gln Ser Pro Gly Asn Glu Arg Glu Leu Val
35 40 45

Ala Thr Val Ser Ser Gly Gly Phe Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Gly
85 90 95

Ala Thr Phe Val Arg Ser Asp Gly His His Thr Ile Tyr Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 808
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 808
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala
            20                  25                  30

Ser Met Asp Trp Tyr Arg Gln Ser Pro Gly Thr Gln Pro Glu Leu Val
        35                  40                  45

Ala Thr Ile Ser Ser Thr Gly Phe Thr Asn Tyr Ala Asn Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Gly
                85                  90                  95

Ala Thr Phe Leu Arg Ser Asp Gly Gln His Ser Ile Tyr Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 809
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 809
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val His Thr Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asp Thr Phe Leu Arg Tyr

```
            20                  25                  30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ala Ile Thr Trp Asn Gly Gly Asn Thr Asp Tyr Ala Gly Ser Leu
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Asp Leu Thr Phe Gly Leu Ala Ser Ser His Tyr Gln Tyr Asp
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 810
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 810
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asp Thr Phe Leu Arg Tyr
            20                  25                  30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45
```

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Ala Ala Ile Thr Trp Asn Gly Gly Asn Thr Asp Tyr Ala Gly Ser Leu
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Asp Leu Thr Phe Gly Leu Ala Ser Ser His Tyr Gln Tyr Asp
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120
```

<210> 811
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 811

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val His Thr Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Phe Ser Gly Asp Thr Phe Leu Arg Tyr
            20                  25                  30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ala Ile Thr Trp Asn Gly Gly Asn Thr Asp Tyr Ala Asp Ser Leu
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr Val Tyr
65                  70                  75                  80
```

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Asp Leu Thr Phe Gly Leu Ala Ser Ser His Tyr Gln Tyr Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 812
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 812
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asp Thr Phe Leu Arg Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Thr Trp Asn Gly Gly Asn Thr Asp Tyr Ala Gly Ser Leu
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Asp Leu Thr Phe Gly Leu Ala Ser Ser His Tyr Gln Tyr Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 813
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 813
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Leu Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
            20                  25                  30


Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45


Ser Gly Ile His Tyr Thr Gly Asp Trp Thr Asn Tyr Ala Asp Ser Val
    50                  55                  60


Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Glu Leu Tyr
65                  70                  75                  80


Leu Glu Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95


Ala Arg Gly Ser Asp Lys Gly Gln Gly Thr Gln Val Thr Val Ser Ser
            100                 105                 110


<210> 814
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 814
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile His Tyr Thr Gly Asp Trp Thr Asn Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Glu Leu Tyr
65 70 75 80

Leu Glu Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Ser Asp Lys Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 815
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 815
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Trp
20 25 30

```
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45


Ser Gly Ile His Tyr Gly Asp His Thr Thr His Tyr Ala Asp Phe Val
    50                  55                  60


Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Thr Leu Tyr
65                  70                  75                  80


Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95


Ala Arg Gly Ser Thr Lys Gly Gln Gly Thr Gln Val Thr Val Ser Ser
            100                 105                 110


<210> 816
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 816
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Trp
            20                  25                  30


Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45


Ser Ser Ile His Tyr Gly Asp His Thr Thr His Tyr Ala Asp Phe Val
    50                  55                  60


Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Thr Leu Tyr
```

65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Glu Lys Gly Thr Thr Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 817
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 817
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Asn Val Phe Arg Ala Ala
20 25 30

Thr Met Ala Trp Tyr Arg Gln Ala Pro Glu Lys Gln Arg Glu Met Val
35 40 45

Ala Thr Ile Ala Ser Gly Gly Thr Thr Asn Tyr Ala Asp Phe Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Gly Tyr Leu Thr Ser Leu Gly Pro Lys Asn Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
        115


<210> 818
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide


<220>
<221> MOD_RES
<222> (44)..(44)
<223> Any amino acid

<400> 818
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Val Phe Arg Ala Ala
            20                  25                  30


Thr Met Ala Trp Tyr Arg Gln Ala Pro Glu Lys Xaa Arg Glu Met Val
        35                  40                  45


Ala Thr Ile Ala Ser Gly Gly Thr Thr Asn Tyr Ala Asp Phe Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95


Ala Gly Tyr Leu Thr Ser Leu Gly Pro Lys Asn Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser

115

<210> 819
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 819
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Val Phe Arg Ala Ala
20 25 30

Thr Met Ala Trp Tyr Arg Gln Val Pro Glu Lys Gln Arg Glu Met Val
35 40 45

Ala Thr Ile Ala Ser Gly Gly Thr Thr Asn Tyr Ala Asp Phe Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Leu Tyr Leu Thr Ser Leu Gly Pro Lys Ser Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 820
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 820
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Gly Asn His
20 25 30

Trp Met Tyr Trp Tyr Arg Gln Ala Pro Gly Arg Gly Arg Glu Leu Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Ser Thr Asn Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Tyr Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly
85 90 95

Thr Ser Asp Asn Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 821
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 821
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Gly Asn His

20 25 30

Trp Met Tyr Trp Tyr Arg Gln Ala Pro Gly Arg Gly Arg Glu Leu Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Ser Thr Asn Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Tyr Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly
85 90 95

Thr Ser Asp Asn Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 822
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 822
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Gly Asn His
20 25 30

Trp Met Tyr Trp Tyr Arg Gln Ala Pro Gly Arg Gly Arg Glu Leu Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Ser Thr Asn Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Tyr Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly
85 90 95

Thr Ser Asp Asn Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 823
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 823
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala
20 25 30

Ser Ile Ser Trp Tyr Arg Gln Ser Pro Gly Asn Glu Arg Glu Leu Val
35 40 45

Ala Thr Ile Asn Ser Gly Gly Phe Thr Asn Tyr Ala Asp Ser Val Leu
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Ala
85 90 95

Ala Thr Phe Leu Arg Ser Asp Gly Gln Pro Pro Ile Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
        115


<210> 824
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 824
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala
            20                  25                  30


Ser Met Gly Trp Tyr Arg Gln Ser Pro Gly Asn Glu Arg Glu Leu Val
        35                  40                  45


Ala Thr Ile Asn Ser Gly Gly Phe Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Ala
                85                  90                  95


Ala Thr Phe Leu Arg Ser Asp Gly Gln Pro Pro Ile Trp Gly Gln Gly
            100                 105                 110


Thr Gln Val Thr Val Ser Ser
        115


<210> 825
<211> 122

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 825
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Tyr Ile Leu Ser Met Tyr
20 25 30

Arg Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Val Arg Glu Leu Val
35 40 45

Ala Asp Met Ser Ser Gly Gly Thr Thr Asn Tyr Ala Asp Phe Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Asp Arg Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Arg Leu Gln Pro Glu Asp Thr Ala Ala Tyr Tyr Cys Asn
85 90 95

Val Ala Gly Arg Thr Gly Pro Pro Ser Tyr Asp Ala Phe Asn Asn Trp
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 826
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 826
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Ala
1               5                   10                  15

Ser Leu Arg Val Ser Cys Ala Ala Ser Glu Tyr Ile Leu Ser Met Tyr
            20                  25                  30

Arg Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Val Arg Glu Leu Val
        35                  40                  45

Ala Asp Met Ser Ser Gly Gly Thr Thr Asn Tyr Ala Asp Phe Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Asp Arg Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Arg Leu Gln Pro Glu Asp Thr Ala Ala Tyr Tyr Cys Asn
                85                  90                  95

Val Ala Gly Arg Thr Gly Pro Pro Ser Tyr Asp Ala Phe Asn Asn Trp
            100                 105                 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120

<210> 827
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 827
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Ser Ile Ser Ser Phe Ile
            20                  25                  30

```
Ala Val Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Asn Arg Ser Gly Phe Thr Tyr Tyr Thr Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Leu Leu
65                  70                  75                  80


Gln Met Thr Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95


Ala Gly Gly Leu Tyr Phe Ser Asn Ala Tyr Thr Gln Gly Asp Tyr Trp
            100                 105                 110


Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 828
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 828
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Ser Ile Ser Ser Phe Ile
            20                  25                  30


Ala Val Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Asn Arg Ser Gly Phe Thr Tyr Tyr Thr Asp Ser Val Lys
```

50 55 60

Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Leu Leu
65 70 75 80

Gln Met Thr Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Gly Gly Leu Tyr Phe Ser Asn Ala Tyr Thr Gln Gly Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 829
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 829
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Val Phe Arg Ala Asn
20 25 30

Val Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln His Glu Leu Val
35 40 45

Ala Arg Ile Asp Pro Gly Gly Thr Thr Thr Tyr Ala Asp Pro Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Ile Ile Leu Leu Ser Gly Gly Pro Lys Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 830
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 830
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Pro Ser Gly Arg Thr Ser Ser Ile Phe
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ser Ile Asn Trp Ser Gly Gly Ser Thr Ser Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Glu Met Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Phe Glu Asp Thr Ala Val Tyr Val Cys
85 90 95

Ala Ala Ala Val Leu Thr Asn Lys Pro Ser Trp Asn Phe Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 831
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 831
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Pro Ile Phe Ser Asp Thr
            20                  25                  30


Ile Arg Thr Met Gly Trp Tyr Arg Gln Ala Ala Gly Lys Gln Arg Glu
        35                  40                  45


Leu Val Ala Thr Ile Ala Ser Phe Pro Ser Arg Thr Asn Tyr Val Asp
    50                  55                  60


Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr
65                  70                  75                  80


Val Tyr Leu Gln Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr
                85                  90                  95


Tyr Cys Asn Val Asp Leu Ala Ser Ile Pro Thr Lys Thr Tyr Trp Gly
            100                 105                 110


Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 832
<211> 120

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 832
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Gly Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Ser Val
35 40 45

Ala Phe Ile Thr Ile Gly Gly Asn Thr Asn Tyr Leu Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Gly Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Thr Asn Pro Pro Leu Ile Leu Thr Ala Gly Gly Leu Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 833
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 833
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Thr Ser Ala Asn Arg Phe Asn Ile Asn
            20                  25                  30

Val Met Gly Trp Tyr Arg Gln Ala Pro Gly Gln Gln Arg Glu Leu Val
        35                  40                  45

Ala Thr Ile Asn Ile Gly Gly Ser Thr Asp Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Leu Ser Asp Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95

Val Lys Leu Arg Val Ser Gly Pro Thr Gly Pro Asn Val Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120

<210> 834
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 834
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Lys Leu Ser Cys Thr Ala Ser Gly Thr Ile Leu Ser Thr Met
            20                  25                  30

Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val Ala Thr
35 40 45

Ile Ser Arg Gly Gly Thr Thr Asn Tyr Ser Asp Ser Val Lys Gly Arg
50 55 60

Phe Ala Ile Ser Arg Asp Ser Thr Lys Asn Thr Val Tyr Leu Gln Met
65 70 75 80

Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Thr Pro
85 90 95

Leu Thr Asp Tyr Gly Met Gly Tyr Asn Trp Gly Gln Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
115

<210> 835
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 835
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Ser Ile Phe Ser Leu Asn
20 25 30

Thr Leu Ala Trp Tyr Arg Gln Ala Pro Gly Arg Gln Arg Asp Leu Ile
35 40 45

Ala Arg Ile Thr Gly Gly Gly Thr Thr Val Tyr Ala Asp Ser Val Lys

50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Leu Met Val Arg His Pro Ser Gly Ser Thr Tyr Glu Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 836
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 836
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Ile Phe Arg Gly Thr
20 25 30

Thr Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Ser Val
35 40 45

Ala Ser Ile Ser Pro Leu Gly Thr Thr Ser Tyr Ser Gly Ser Val Glu
50 55 60

Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn Thr Leu Phe Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Ile Gln Val Thr Asn Val Gly Pro Arg Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 837
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 837
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ser Ser Gly Phe Thr Leu Asp Asp Tyr
20 25 30

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Cys Ile Ser Arg Arg Asp Asp Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65 70 75 80

Leu Gln Met Ile Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Thr Pro Arg Ser Tyr Thr Leu Arg Cys Leu Gly Lys Phe Asp
100 105 110

Phe Gln Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 838
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 838
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Ile Val Arg Met Thr
            20                  25                  30


Asn Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Phe Val
        35                  40                  45


Ala Thr Ile Ser Ala Gly Gly Ser Thr Thr Tyr Val Asp Ser Val Lys
    50                  55                  60


Asp Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Tyr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
                85                  90                  95


Thr Gly Ser Ile Leu Thr Asn Arg Gly Ala Ile Pro Gly Ser Trp Gly
            100                 105                 110


His Gly Thr Gln Val Thr Val Ser Ser
        115                 120


<210> 839
<211> 127

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 839
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Phe Ala Phe Asn Asp His
20 25 30

Ala Ile Leu Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Glu Ile Cys Arg Asp Gly Thr Thr Tyr Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Val Lys Thr Asp Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Val Asp Arg Arg Arg Tyr Tyr Cys Ser Gly Asn Arg Ala Phe Ser Ser
100 105 110

Asp Tyr Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 840
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 840
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Val His Ser Gly Ser Ile Phe Arg Ala Ser
            20                  25                  30

Thr Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Gln Ile Met Ser Gly Gly Gly Thr Asn Tyr Ala Gly Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Asn Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95

Ala Ala Gln Ile Thr Ser Trp Gly Pro Lys Val Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Gln Val Thr Val Ser Ser
        115

<210> 841
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 841
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ile Asn Ser Ile Asn
            20                  25                  30

Thr Met Gly Trp Tyr Arg Gln Ala Pro Gly Asn Gln Arg Glu Leu Val
35 40 45

Ala Glu Ile Thr Arg Gly Gly Thr Thr Asn Tyr Ala Asp Ser Val Gln
50 55 60

Gly Arg Tyr Ala Ile Ser Arg Asp Asn Ala Lys Asn Leu Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Asp Val Tyr Tyr Cys Asn
85 90 95

Ala Gln Thr Phe Pro Thr Phe Ser Arg Pro Thr Gly Leu Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 842
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 842
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val

```
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255
```

```
Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Ser Val Phe Arg Ala Asn Val Met Gly Trp Tyr Arg Gln
    290                 295                 300

Ala Pro Gly Lys Gln His Glu Leu Val Ala Arg Ile Asp Pro Gly Gly
305                 310                 315                 320

Thr Thr Thr Tyr Ala Asp Pro Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ala Lys Lys Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350

Asp Asp Thr Ala Val Tyr Tyr Cys Asn Ala Ile Ile Leu Leu Ser Gly
        355                 360                 365

Gly Pro Lys Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
    370                 375                 380

His His His His His His
385                 390
```

<210> 843
<211> 395
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 843
```
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
```

```
1               5                   10                  15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205
```

```
Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ser Ser Gly Phe Thr Leu Asp Asp Tyr Thr Ile Gly Trp Phe Arg Gln
    290                 295                 300

Ala Pro Gly Lys Glu Arg Glu Gly Val Ser Cys Ile Ser Arg Arg Asp
305                 310                 315                 320

Asp Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
                325                 330                 335

Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln Met Ile Ser Leu Arg
            340                 345                 350

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Thr Pro Arg Ser Tyr
        355                 360                 365

Thr Leu Arg Cys Leu Gly Lys Phe Asp Phe Gln Gly Gln Gly Thr Gln
    370                 375                 380

Val Thr Val Ser Ser His His His His His His
385                 390                 395
```

<210> 844
<211> 392
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 844
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
130 135 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145 150 155 160

```
Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Asn Ile Val Arg Met Thr Asn Met Ala Trp Tyr Arg Gln
    290                 295                 300

Ala Pro Gly Lys Gln Arg Glu Phe Val Ala Thr Ile Ser Ala Gly Gly
305                 310                 315                 320

Ser Thr Thr Tyr Val Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Thr Lys Asn Thr Val Tyr Leu Gln Met Asn Tyr Leu Lys Pro
            340                 345                 350
```

Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr Gly Ser Ile Leu Thr Asn
        355                 360                 365

Arg Gly Ala Ile Pro Gly Ser Trp Gly His Gly Thr Gln Val Thr Val
    370                 375                 380

Ser Ser His His His His His His
385                 390

<210> 845
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 845
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

```
Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Phe Ile Phe Arg Ala Ala Ser Ile Ser Trp Tyr Arg Gln
    290                 295                 300
```

```
Ser Pro Gly Asn Glu Arg Glu Leu Val Ala Thr Ile Asn Ser Gly Gly
305                 310                 315                 320


Phe Thr Asn Tyr Ala Asp Ser Val Leu Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335


Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350


Glu Asp Thr Ala Val Tyr Phe Cys Ala Ala Thr Phe Leu Arg Ser Asp
        355                 360                 365


Gly Gln Pro Pro Ile Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
    370                 375                 380


His His His His His His
385                 390


<210> 846
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 846
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15


Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30


Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45


Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60
```

```
Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255
```

```
Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Asn Val Phe Arg Ala Ala Thr Met Ala Trp Tyr Arg Gln
    290                 295                 300

Val Pro Glu Lys Gln Arg Glu Met Val Ala Thr Ile Ala Ser Gly Gly
305                 310                 315                 320

Thr Thr Asn Tyr Ala Asp Phe Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Thr Leu Lys Pro
            340                 345                 350

Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala Leu Tyr Leu Thr Ser Leu
        355                 360                 365

Gly Pro Lys Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
    370                 375                 380

His His His His His His
385                 390
```

<210> 847
<211> 398
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 847

```
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15
```

```
Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205
```

```
Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Pro Gly Phe Ala Phe Asn Asp His Ala Ile Leu Trp Phe Arg Gln
    290                 295                 300

Ala Pro Gly Lys Glu Arg Glu Gly Val Ser Glu Ile Cys Arg Asp Gly
305                 310                 315                 320

Thr Thr Tyr Tyr Thr Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ser
                325                 330                 335

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Val Lys Thr
            340                 345                 350

Asp Asp Thr Ala Val Tyr Tyr Cys Ala Val Asp Arg Arg Arg Tyr Tyr
        355                 360                 365

Cys Ser Gly Asn Arg Ala Phe Ser Ser Asp Tyr Tyr Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Gln Val Thr Val Ser Ser His His His His His His
385                 390                 395
```

<210> 848
<211> 382
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 848
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
130 135 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145 150 155 160

```
Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Phe Ala Phe Gly Asn His Trp Met Tyr Trp Tyr Arg Gln
    290                 295                 300

Ala Pro Gly Arg Gly Arg Glu Leu Val Ala Ser Ile Ser Ser Gly Gly
305                 310                 315                 320

Ser Thr Asn Tyr Val Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ala Arg Asn Thr Val Tyr Leu Gln Met Tyr Ser Leu Lys Pro
            340                 345                 350
```

Glu Asp Thr Ala Val Tyr Tyr Cys Gly Thr Ser Asp Asn Trp Gly Gln
355 360 365

Gly Thr Gln Val Thr Val Ser Ser His His His His His His
370 375 380

<210> 849
<211> 395
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 849
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

```
Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Asp Thr Phe Leu Arg Tyr Ala Met Gly Trp Phe Arg Gln
    290                 295                 300

Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile Thr Trp Asn Gly
305                 310                 315                 320
```

Gly Asn Thr Asp Tyr Ala Gly Ser Leu Lys Gly Arg Phe Thr Ile Ser
325 330 335

Arg Asp Asn Thr Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys
340 345 350

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Asp Leu Thr Phe Gly
355 360 365

Leu Ala Ser Ser His Tyr Gln Tyr Asp Tyr Trp Gly Gln Gly Thr Gln
370 375 380

Val Thr Val Ser Ser His His His His His His
385 390 395

<210> 850
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 850
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

```
Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270
```

```
Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285


Ala Ser Gly Phe Ile Phe Arg Ala Ala Ser Met Asp Trp Tyr Arg Gln
    290                 295                 300


Phe Pro Gly Asn Glu Arg Glu Ser Ile Ala Thr Ile Ser Ser Gly Gly
305                 310                 315                 320


Phe Thr Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335


Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350


Glu Asp Thr Ala Val Tyr Phe Cys Gly Ala Thr Phe Leu Arg Ser Asp
        355                 360                 365


Gly His His Thr Ile Asn Gly Gln Gly Thr Gln Val Thr Val Ser Ser
    370                 375                 380


His His His His His His
385                 390


<210> 851
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 851
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15


Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30
```

```
Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220
```

```
Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240


Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255


Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270


Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285


Ala Ser Gly Phe Ile Phe Arg Ala Ala Ser Met Gly Trp Phe Arg Gln
    290                 295                 300


Ser Pro Gly Asn Glu Arg Glu Leu Val Ala Thr Val Ser Ser Gly Gly
305                 310                 315                 320


Phe Thr Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335


Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350


Glu Asp Thr Ala Val Tyr Phe Cys Gly Ala Thr Phe Val Arg Ser Asp
        355                 360                 365


Gly His His Thr Ile Tyr Gly Gln Gly Thr Gln Val Thr Val Ser Ser
    370                 375                 380


His His His His His His
385                 390


<210> 852
<211> 390
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 852
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
130 135 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145 150 155 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

```
Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Val
        275                 280                 285

His Ser Gly Ser Ile Phe Arg Ala Ser Thr Met Ala Trp Tyr Arg Gln
    290                 295                 300

Ala Pro Gly Lys Gln Arg Glu Leu Val Ala Gln Ile Met Ser Gly Gly
305                 310                 315                 320

Gly Thr Asn Tyr Ala Gly Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ala Asn Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350

Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala Ala Gln Ile Thr Ser Trp
        355                 360                 365

Gly Pro Lys Val Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
```

370 375 380

His His His His His His
385 390

<210> 853
<211> 383
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 853
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

```
Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Phe Thr Phe Ser Asp Trp Ala Met Ser Trp Val Arg Gln
    290                 295                 300

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile His Tyr Gly Asp
305                 310                 315                 320

His Thr Thr His Tyr Ala Asp Phe Val Lys Gly Arg Phe Thr Ile Ser
```

```
                325                 330                 335

Arg Asp Asp Ala Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys
            340                 345                 350

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Glu Lys Gly Thr Thr Arg Gly
        355                 360                 365

Gln Gly Thr Gln Val Thr Val Ser Ser His His His His His His
    370                 375                 380

<210> 854
<211> 393
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 854
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95
```

```
Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Ala Ser Leu Arg Val Ser Cys Ala
        275                 280                 285

Ala Ser Glu Tyr Ile Leu Ser Met Tyr Arg Met Ala Trp Tyr Arg Gln
```

290 295 300

Ala Pro Gly Lys Val Arg Glu Leu Val Ala Asp Met Ser Ser Gly Gly
305 310 315 320

Thr Thr Asn Tyr Ala Asp Phe Val Lys Gly Arg Phe Thr Ile Ser Arg
325 330 335

Asp Asn Asp Arg Asn Thr Val Tyr Leu Gln Met Asn Arg Leu Gln Pro
340 345 350

Glu Asp Thr Ala Ala Tyr Tyr Cys Asn Val Ala Gly Arg Thr Gly Pro
355 360 365

Pro Ser Tyr Asp Ala Phe Asn Asn Trp Gly Gln Gly Thr Gln Val Thr
370 375 380

Val Ser Ser His His His His His His
385 390

<210> 855
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 855
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

```
Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
```

```
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Phe Ile Phe Arg Ala Ala Ser Met Asp Trp Tyr Arg Gln
    290                 295                 300

Ser Pro Gly Thr Gln Pro Glu Leu Val Ala Thr Ile Ser Ser Thr Gly
305                 310                 315                 320

Phe Thr Asn Tyr Ala Asn Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350

Glu Asp Thr Ala Val Tyr Phe Cys Gly Ala Thr Phe Leu Arg Ser Asp
        355                 360                 365

Gly Gln His Ser Ile Tyr Gly Gln Gly Thr Gln Val Thr Val Ser Ser
    370                 375                 380

His His His His His His
385                 390
```

<210> 856
<211> 393
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 856

```
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
```

```
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Arg Ile Asn Ser Ile Asn Thr Met Gly Trp Tyr Arg Gln
    290                 295                 300

Ala Pro Gly Asn Gln Arg Glu Leu Val Ala Glu Ile Thr Arg Gly Gly
305                 310                 315                 320

Thr Thr Asn Tyr Ala Asp Ser Val Gln Gly Arg Tyr Ala Ile Ser Arg
                325                 330                 335

Asp Asn Ala Lys Asn Leu Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350

Glu Asp Thr Asp Val Tyr Tyr Cys Asn Ala Gln Thr Phe Pro Thr Phe
        355                 360                 365

Ser Arg Pro Thr Gly Leu Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr
    370                 375                 380

Val Ser Ser His His His His His His
385                 390
```

<210> 857
<211> 393
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 857
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
130 135 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe

```
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Glu Ser Ile Ser Ser Phe Ile Ala Val Gly Trp Tyr Arg Gln
    290                 295                 300

Ala Pro Gly Lys Glu Arg Glu Leu Val Ala Gly Ile Asn Arg Ser Gly
305                 310                 315                 320

Phe Thr Tyr Tyr Thr Asp Ser Val Lys Gly Arg Phe Ser Ile Ser Arg
                325                 330                 335

Asp Asn Ala Lys Asn Thr Val Leu Leu Gln Met Thr Ser Leu Lys Pro
            340                 345                 350
```

Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala Gly Gly Leu Tyr Phe Ser
        355                 360                 365

Asn Ala Tyr Thr Gln Gly Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr
    370                 375                 380

Val Ser Ser His His His His His His
385                 390

<210> 858
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 858
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys

```
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Lys Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Asn Val Phe Arg Ala Ala Thr Met Ala Trp Tyr Arg Gln
    290                 295                 300
```

```
Ala Pro Glu Lys Gln Arg Glu Met Val Ala Thr Ile Ala Ser Gly Gly
305                 310                 315                 320


Thr Thr Asn Tyr Ala Asp Phe Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335


Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Thr Leu Lys Pro
            340                 345                 350


Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala Gly Tyr Leu Thr Ser Leu
        355                 360                 365


Gly Pro Lys Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
    370                 375                 380


His His His His His His
385                 390


<210> 859
<211> 383
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 859
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15


Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30


Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45


Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
```

```
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255
```

```
Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270


Gly Gly Gly Ser Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285


Ala Ser Gly Phe Thr Phe Ser Ser Tyr Tyr Met Ser Trp Val Arg Gln
    290                 295                 300


Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Gly Ile His Tyr Thr Gly
305                 310                 315                 320


Asp Trp Thr Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
                325                 330                 335


Arg Asp Asn Ala Lys Asn Glu Leu Tyr Leu Glu Met Asn Asn Leu Lys
            340                 345                 350


Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Ser Asp Lys Gly
        355                 360                 365


Gln Gly Thr Gln Val Thr Val Ser Ser His His His His His His
    370                 375                 380


<210> 860
<211> 391
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 860
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15


Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
```

```
            20                  25                  30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220
```

```
Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Pro Ser Gly Arg Thr Ser Ser Ile Phe Gly Met Gly Trp Phe Arg Gln
    290                 295                 300

Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ser Ile Asn Trp Ser Gly
305                 310                 315                 320

Gly Ser Thr Ser Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
                325                 330                 335

Arg Asp Asn Ala Lys Asn Glu Met Tyr Leu Gln Met Asn Ser Leu Lys
            340                 345                 350

Phe Glu Asp Thr Ala Val Tyr Val Cys Ala Ala Ala Val Leu Thr Asn
        355                 360                 365

Lys Pro Ser Trp Asn Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser
    370                 375                 380

Ser His His His His His His
385                 390
```

<210> 861
<211> 392
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 861
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
130 135 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145 150 155 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

```
Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Pro Ile Phe Ser Asp Thr Ile Arg Thr Met Gly Trp Tyr
    290                 295                 300

Arg Gln Ala Ala Gly Lys Gln Arg Glu Leu Val Ala Thr Ile Ala Ser
305                 310                 315                 320

Phe Pro Ser Arg Thr Asn Tyr Val Asp Ser Val Lys Gly Arg Phe Thr
                325                 330                 335

Ile Ser Arg Asp Ile Ala Lys Asn Thr Val Tyr Leu Gln Met Asp Ser
            340                 345                 350

Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Val Asp Leu Ala
        355                 360                 365
```

Ser Ile Pro Thr Lys Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
370 375 380

Ser Ser His His His His His His
385 390

<210> 862
<211> 391
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 862
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

```
Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Ser Ile Phe Gly Ile Asn Ala Met Gly Trp Tyr Arg Gln
    290                 295                 300

Ala Pro Gly Lys Gln Arg Glu Ser Val Ala Phe Ile Thr Ile Gly Gly
305                 310                 315                 320
```

Asn Thr Asn Tyr Leu Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
325 330 335

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Gly Leu Lys Pro
340 345 350

Glu Asp Thr Ala Val Tyr Tyr Cys Asn Thr Asn Pro Pro Leu Ile Leu
355 360 365

Thr Ala Gly Gly Leu Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
370 375 380

Ser His His His His His His
385 390

<210> 863
<211> 392
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 863
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

```
Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270
```

```
Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Thr Ser Ala Asn Arg Phe Asn Ile Asn Val Met Gly Trp Tyr Arg Gln
    290                 295                 300

Ala Pro Gly Gln Gln Arg Glu Leu Val Ala Thr Ile Asn Ile Gly Gly
305                 310                 315                 320

Ser Thr Asp Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Leu Ser Asp Leu Lys Pro
            340                 345                 350

Glu Asp Thr Ala Val Tyr Tyr Cys Asn Val Lys Leu Arg Val Ser Gly
        355                 360                 365

Pro Thr Gly Pro Asn Val Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
    370                 375                 380

Ser Ser His His His His His His
385                 390
```

<210> 864
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 864

```
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30
```

```
Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220
```

```
Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240


Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255


Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270


Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Lys Leu Ser Cys Thr
        275                 280                 285


Ala Ser Gly Thr Ile Leu Ser Thr Met Ala Trp Tyr Arg Gln Ala Pro
    290                 295                 300


Gly Lys Gln Arg Glu Leu Val Ala Thr Ile Ser Arg Gly Gly Thr Thr
305                 310                 315                 320


Asn Tyr Ser Asp Ser Val Lys Gly Arg Phe Ala Ile Ser Arg Asp Ser
                325                 330                 335


Thr Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp
            340                 345                 350


Thr Ala Val Tyr Tyr Cys Asn Thr Pro Leu Thr Asp Tyr Gly Met Gly
        355                 360                 365


Tyr Asn Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser His His His
    370                 375                 380


His His His
385
```

<210> 865
<211> 391
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 865
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
130 135 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145 150 155 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

```
Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Val Ser Gly Ser Ile Phe Ser Leu Asn Thr Leu Ala Trp Tyr Arg Gln
    290                 295                 300

Ala Pro Gly Arg Gln Arg Asp Leu Ile Ala Arg Ile Thr Gly Gly Gly
305                 310                 315                 320

Thr Thr Val Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350

Glu Asp Thr Ala Val Tyr Tyr Cys Asn Leu Met Val Arg His Pro Ser
        355                 360                 365
```

Gly Ser Thr Tyr Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
370 375 380

Ser His His His His His His
385 390

<210> 866
<211> 383
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 866
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

```
Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Phe Thr Phe Ser Asp Trp Ala Met Ser Trp Val Arg Gln
    290                 295                 300

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Gly Ile His Tyr Gly Asp
305                 310                 315                 320
```

```
His Thr Thr His Tyr Ala Asp Phe Val Lys Gly Arg Phe Thr Ile Ser
                325                 330                 335


Arg Asp Asp Ala Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys
            340                 345                 350


Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Ser Thr Lys Gly
        355                 360                 365


Gln Gly Thr Gln Val Thr Val Ser Ser His His His His His His
    370                 375                 380


<210> 867
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 867
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15


Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30


Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45


Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60


Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80


Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95
```

```
Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285
```

```
Ala Ser Gly Phe Ile Phe Arg Ala Ala Ser Met Ala Trp Tyr Arg Gln
    290                 295                 300

Ser Pro Gly Asn Glu Arg Glu Leu Val Ala Ser Ile Ser Ser Gly Ala
305                 310                 315                 320

Phe Thr Asn Tyr Ala Asp Ser Val Lys Ala Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
            340                 345                 350

Glu Asp Thr Ala Val Tyr Phe Cys Gly Ala Thr Phe Leu Arg Ser Asp
        355                 360                 365

Gly His His Thr Ile Asn Gly Gln Gly Thr Gln Val Thr Val Ser Ser
    370                 375                 380

His His His His His His
385                 390


<210> 868
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 868
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45
```

```
Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240
```

```
Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255


Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser
            260                 265                 270


Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala
        275                 280                 285


Ala Ser Gly Ile Ile Phe Arg Gly Thr Thr Met Gly Trp Phe Arg Gln
    290                 295                 300


Ala Pro Gly Lys Gln Arg Glu Ser Val Ala Ser Ile Ser Pro Leu Gly
305                 310                 315                 320


Thr Thr Ser Tyr Ser Gly Ser Val Glu Gly Arg Phe Thr Val Ser Arg
                325                 330                 335


Asp Asn Ala Lys Asn Thr Leu Phe Leu Gln Met Asn Ser Leu Lys Ser
            340                 345                 350


Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala Ile Gln Val Thr Asn Val
        355                 360                 365


Gly Pro Arg Val Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
    370                 375                 380


His His His His His His
385                 390


<210> 869
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide
```

<400> 869
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                  10                  15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Val
            20                  25                  30

Phe Arg Ala Asn Val Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln
        35                  40                  45

His Glu Leu Val Ala Arg Ile Asp Pro Gly Gly Thr Thr Thr Tyr Ala
    50                  55                  60

Asp Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val
                85                  90                  95

Tyr Tyr Cys Asn Ala Ile Ile Leu Leu Ser Gly Gly Pro Lys Asp Tyr
            100                 105                 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

```
Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            340                 345                 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
    370                 375                 380

His His His
```

385

<210> 870
<211> 392
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 870
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ser Ser Gly Phe Thr
20 25 30

Leu Asp Asp Tyr Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
35 40 45

Arg Glu Gly Val Ser Cys Ile Ser Arg Arg Asp Asp Ser Thr Tyr Tyr
50 55 60

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
65 70 75 80

Asn Thr Val Asp Leu Gln Met Ile Ser Leu Arg Pro Glu Asp Thr Ala
85 90 95

Val Tyr Tyr Cys Ala Ala Thr Pro Arg Ser Tyr Thr Leu Arg Cys Leu
100 105 110

Gly Lys Phe Asp Phe Gln Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
130 135 140

```
Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
145                 150                 155                 160


Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln
                165                 170                 175


Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
            180                 185                 190


Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
        195                 200                 205


Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn
    210                 215                 220


Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
225                 230                 235                 240


Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
                245                 250                 255


Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270


Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr
        275                 280                 285


Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly
    290                 295                 300


Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly
305                 310                 315                 320


Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly
                325                 330                 335


Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu
```

```
            340                 345                 350

Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr
        355                 360                 365

Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr
    370                 375                 380

Val Leu His His His His His His
385                 390


<210> 871
<211> 389
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 871
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Ile
            20                  25                  30

Val Arg Met Thr Asn Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln
        35                  40                  45

Arg Glu Phe Val Ala Thr Ile Ser Ala Gly Gly Ser Thr Thr Tyr Val
    50                  55                  60

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Tyr Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95
```

```
Tyr Tyr Cys Ala Thr Gly Ser Ile Leu Thr Asn Arg Gly Ala Ile Pro
            100                 105                 110

Gly Ser Trp Gly His Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    130                 135                 140

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
145                 150                 155                 160

Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly
                165                 170                 175

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
            180                 185                 190

Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg
        195                 200                 205

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
    210                 215                 220

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn
225                 230                 235                 240

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
                245                 250                 255

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
            260                 265                 270

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
        275                 280                 285

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
```

290 295 300

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
305 310 315 320

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
325 330 335

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
340 345 350

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
355 360 365

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His
370 375 380

His His His His His
385

<210> 872
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 872
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile
20 25 30

Phe Arg Ala Ala Ser Ile Ser Trp Tyr Arg Gln Ser Pro Gly Asn Glu
35 40 45

```
Arg Glu Leu Val Ala Thr Ile Asn Ser Gly Gly Phe Thr Asn Tyr Ala
    50                  55                  60

Asp Ser Val Leu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Gly Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Phe Cys Ala Ala Thr Phe Leu Arg Ser Asp Gly Gln Pro Pro Ile
            100                 105                 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
```

245 250 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
260 265 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
275 280 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
290 295 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305 310 315 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
325 330 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
340 345 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
355 360 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
370 375 380

His His His
385

<210> 873
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 873

```
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asn Val
            20                  25                  30

Phe Arg Ala Ala Thr Met Ala Trp Tyr Arg Gln Val Pro Glu Lys Gln
        35                  40                  45

Arg Glu Met Val Ala Thr Ile Ala Ser Gly Gly Thr Thr Asn Tyr Ala
    50                  55                  60

Asp Phe Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Tyr Cys Asn Ala Leu Tyr Leu Thr Ser Leu Gly Pro Lys Ser Tyr
            100                 105                 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
```

```
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            340                 345                 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
    370                 375                 380

His His His
385
```

<210> 874
<211> 395
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 874
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Phe Ala
20 25 30

Phe Asn Asp His Ala Ile Leu Trp Phe Arg Gln Ala Pro Gly Lys Glu
35 40 45

Arg Glu Gly Val Ser Glu Ile Cys Arg Asp Gly Thr Thr Tyr Tyr Thr
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn
65 70 75 80

Thr Val Tyr Leu Gln Met Asn Ser Val Lys Thr Asp Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Val Asp Arg Arg Arg Tyr Tyr Cys Ser Gly Asn Arg
100 105 110

Ala Phe Ser Ser Asp Tyr Tyr Tyr Trp Gly Gln Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
130 135 140

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu

```
145                 150                 155                 160

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp
                165                 170                 175

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
            180                 185                 190

Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp
        195                 200                 205

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
    210                 215                 220

Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
225                 230                 235                 240

His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
                245                 250                 255

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
            260                 265                 270

Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        275                 280                 285

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser
    290                 295                 300

Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln
305                 310                 315                 320

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu
                325                 330                 335

Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            340                 345                 350
```

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        355                 360                 365

Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
    370                 375                 380

Lys Leu Thr Val Leu His His His His His His
385                 390                 395

<210> 875
<211> 379
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 875
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ala
            20                  25                  30

Phe Gly Asn His Trp Met Tyr Trp Tyr Arg Gln Ala Pro Gly Arg Gly
        35                  40                  45

Arg Glu Leu Val Ala Ser Ile Ser Ser Gly Gly Ser Thr Asn Tyr Val
    50                  55                  60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Tyr Ser Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Tyr Cys Gly Thr Ser Asp Asn Trp Gly Gln Gly Thr Gln Val Thr

```
            100                 105                 110

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
        115                 120                 125

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu
    130                 135                 140

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp
145                 150                 155                 160

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
                165                 170                 175

Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp
            180                 185                 190

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
        195                 200                 205

Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
    210                 215                 220

His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
225                 230                 235                 240

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
                245                 250                 255

Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
            260                 265                 270

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser
        275                 280                 285

Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln
    290                 295                 300
```

```
Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu
305                 310                 315                 320


Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
                325                 330                 335


Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
            340                 345                 350


Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
        355                 360                 365


Lys Leu Thr Val Leu His His His His His His
    370                 375
```

<210> 876
<211> 392
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 876

```
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15


Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asp Thr
            20                  25                  30


Phe Leu Arg Tyr Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
        35                  40                  45


Arg Glu Phe Val Ala Ala Ile Thr Trp Asn Gly Gly Asn Thr Asp Tyr
    50                  55                  60


Ala Gly Ser Leu Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys
```

```
65                  70                  75                  80

Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala
                85                  90                  95

Val Tyr Tyr Cys Ala Ala Asp Leu Thr Phe Gly Leu Ala Ser Ser His
            100                 105                 110

Tyr Gln Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
    130                 135                 140

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
145                 150                 155                 160

Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln
                165                 170                 175

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
            180                 185                 190

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
        195                 200                 205

Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn
    210                 215                 220

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
225                 230                 235                 240

Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
                245                 250                 255

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270
```

```
Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr
        275                 280                 285


Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly
    290                 295                 300


Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly
305                 310                 315                 320


Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly
                325                 330                 335


Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu
            340                 345                 350


Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr
        355                 360                 365


Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr
    370                 375                 380


Val Leu His His His His His His
385                 390
```

<210> 877
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 877

```
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15


Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile
```

```
            20                  25                  30

Phe Arg Ala Ala Ser Met Asp Trp Tyr Arg Gln Phe Pro Gly Asn Glu
        35                  40                  45

Arg Glu Ser Ile Ala Thr Ile Ser Ser Gly Gly Phe Thr Asn Tyr Ala
    50                  55                  60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Phe Cys Gly Ala Thr Phe Leu Arg Ser Asp Gly His His Thr Ile
            100                 105                 110

Asn Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220
```

```
Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            340                 345                 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
    370                 375                 380

His His His
385
```

<210> 878
<211> 387
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 878
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile
20 25 30

Phe Arg Ala Ala Ser Met Gly Trp Phe Arg Gln Ser Pro Gly Asn Glu
35 40 45

Arg Glu Leu Val Ala Thr Val Ser Ser Gly Gly Phe Thr Asn Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65 70 75 80

Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
85 90 95

Tyr Phe Cys Gly Ala Thr Phe Val Arg Ser Asp Gly His His Thr Ile
100 105 110

Tyr Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
165 170 175

```
Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            340                 345                 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365
```

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
370 375 380

His His His
385

<210> 879
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 879
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Val His Ser Gly Ser Ile
20 25 30

Phe Arg Ala Ser Thr Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln
35 40 45

Arg Glu Leu Val Ala Gln Ile Met Ser Gly Gly Gly Thr Asn Tyr Ala
50 55 60

Gly Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Asn Asn
65 70 75 80

Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Asn Ala Ala Gln Ile Thr Ser Trp Gly Pro Lys Val Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
115 120 125

```
Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320
```

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
325 330 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
340 345 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
355 360 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
370 375 380

His His His
385

<210> 880
<211> 380
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 880
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
20 25 30

Phe Ser Asp Trp Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
35 40 45

Leu Glu Trp Val Ser Ser Ile His Tyr Gly Asp His Thr Thr His Tyr
50 55 60

Ala Asp Phe Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys
65 70 75 80

```
Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala
                85                  90                  95

Val Tyr Tyr Cys Glu Lys Gly Thr Thr Arg Gly Gln Gly Thr Gln Val
            100                 105                 110

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
        115                 120                 125

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175

Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
                245                 250                 255

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270
```

```
Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu His His His His His His
    370                 375                 380
```

<210> 881
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 881

```
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15

Gln Pro Gly Ala Ser Leu Arg Val Ser Cys Ala Ala Ser Glu Tyr Ile
            20                  25                  30

Leu Ser Met Tyr Arg Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Val
        35                  40                  45
```

```
Arg Glu Leu Val Ala Asp Met Ser Ser Gly Gly Thr Thr Asn Tyr Ala
    50                  55                  60

Asp Phe Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Asp Arg Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Arg Leu Gln Pro Glu Asp Thr Ala Ala
                85                  90                  95

Tyr Tyr Cys Asn Val Ala Gly Arg Thr Gly Pro Pro Ser Tyr Asp Ala
            100                 105                 110

Phe Asn Asn Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly
        115                 120                 125

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    130                 135                 140

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
145                 150                 155                 160

Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro
                165                 170                 175

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn
            180                 185                 190

Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser
        195                 200                 205

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
    210                 215                 220

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly
225                 230                 235                 240
```

```
Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
                245                 250                 255

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
            260                 265                 270

Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser
        275                 280                 285

Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val
    290                 295                 300

Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala
305                 310                 315                 320

Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro
                325                 330                 335

Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu
            340                 345                 350

Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp
        355                 360                 365

Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
    370                 375                 380

His His His His His His
385                 390
```

<210> 882
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 882
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile
            20                  25                  30

Phe Arg Ala Ala Ser Met Asp Trp Tyr Arg Gln Ser Pro Gly Thr Gln
        35                  40                  45

Pro Glu Leu Val Ala Thr Ile Ser Ser Thr Gly Phe Thr Asn Tyr Ala
    50                  55                  60

Asn Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Phe Cys Gly Ala Thr Phe Leu Arg Ser Asp Gly Gln His Ser Ile
            100                 105                 110

Tyr Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

```
Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            340                 345                 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
    370                 375                 380
```

His His His
385

<210> 883
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 883
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ile
20 25 30

Asn Ser Ile Asn Thr Met Gly Trp Tyr Arg Gln Ala Pro Gly Asn Gln
35 40 45

Arg Glu Leu Val Ala Glu Ile Thr Arg Gly Gly Thr Thr Asn Tyr Ala
50 55 60

Asp Ser Val Gln Gly Arg Tyr Ala Ile Ser Arg Asp Asn Ala Lys Asn
65 70 75 80

Leu Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Asp Val
85 90 95

Tyr Tyr Cys Asn Ala Gln Thr Phe Pro Thr Phe Ser Arg Pro Thr Gly
100 105 110

Leu Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
130 135 140

```
Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
145                 150                 155                 160

Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro
                165                 170                 175

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn
            180                 185                 190

Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser
        195                 200                 205

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
    210                 215                 220

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly
225                 230                 235                 240

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
                245                 250                 255

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
            260                 265                 270

Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser
        275                 280                 285

Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val
    290                 295                 300

Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala
305                 310                 315                 320

Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro
                325                 330                 335
```

```
Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu
            340                 345                 350


Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp
        355                 360                 365


Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
    370                 375                 380


His His His His His His
385                 390


<210> 884
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 884
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15


Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Ser Ile
            20                  25                  30


Ser Ser Phe Ile Ala Val Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu
        35                  40                  45


Arg Glu Leu Val Ala Gly Ile Asn Arg Ser Gly Phe Thr Tyr Tyr Thr
    50                  55                  60


Asp Ser Val Lys Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80


Thr Val Leu Leu Gln Met Thr Ser Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95
```

```
Tyr Tyr Cys Asn Ala Gly Gly Leu Tyr Phe Ser Asn Ala Tyr Thr Gln
            100                 105                 110

Gly Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly
        115                 120                 125

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    130                 135                 140

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
145                 150                 155                 160

Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro
                165                 170                 175

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn
            180                 185                 190

Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser
        195                 200                 205

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
    210                 215                 220

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly
225                 230                 235                 240

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
                245                 250                 255

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
            260                 265                 270

Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser
        275                 280                 285
```

```
Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val
    290                 295                 300

Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala
305                 310                 315                 320

Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro
                325                 330                 335

Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu
            340                 345                 350

Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp
        355                 360                 365

Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
    370                 375                 380

His His His His His His
385                 390
```

<210> 885
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 885

```
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15

Gln Ala Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Asn Val
            20                  25                  30

Phe Arg Ala Ala Thr Met Ala Trp Tyr Arg Gln Ala Pro Glu Lys Gln
        35                  40                  45
```

```
Arg Glu Met Val Ala Thr Ile Ala Ser Gly Gly Thr Thr Asn Tyr Ala
    50                  55                  60

Asp Phe Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Tyr Cys Asn Ala Gly Tyr Leu Thr Ser Leu Gly Pro Lys Asn Tyr
            100                 105                 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240
```

```
Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            340                 345                 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
    370                 375                 380

His His His
385
```

<210> 886
<211> 380
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 886
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val
1               5                  10                  15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
            20                  25                  30

Phe Ser Ser Tyr Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
        35                  40                  45

Leu Glu Trp Val Ser Gly Ile His Tyr Thr Gly Asp Trp Thr Asn Tyr
    50                  55                  60

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
65                  70                  75                  80

Asn Glu Leu Tyr Leu Glu Met Asn Asn Leu Lys Pro Glu Asp Thr Ala
                85                  90                  95

Val Tyr Tyr Cys Ala Arg Gly Ser Asp Lys Gly Gln Gly Thr Gln Val
            100                 105                 110

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
        115                 120                 125

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175

Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190

```
Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
                245                 250                 255

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu His His His His His His
    370                 375                 380
```

<210> 887

<211> 388
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 887
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Pro Ser Gly Arg Thr
20 25 30

Ser Ser Ile Phe Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
35 40 45

Arg Glu Phe Val Ala Ser Ile Asn Trp Ser Gly Gly Ser Thr Ser Tyr
50 55 60

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
65 70 75 80

Asn Glu Met Tyr Leu Gln Met Asn Ser Leu Lys Phe Glu Asp Thr Ala
85 90 95

Val Tyr Val Cys Ala Ala Ala Val Leu Thr Asn Lys Pro Ser Trp Asn
100 105 110

Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly
115 120 125

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
130 135 140

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
145 150 155 160

```
Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys
                165                 170                 175

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
            180                 185                 190

Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
        195                 200                 205

Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
    210                 215                 220

Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser
225                 230                 235                 240

Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
                245                 250                 255

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
            260                 265                 270

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
        275                 280                 285

Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser
    290                 295                 300

Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
305                 310                 315                 320

Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg
                325                 330                 335

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
            340                 345                 350

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser
```

355 360 365

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His
370 375 380

His His His His
385

<210> 888
<211> 389
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 888
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Pro Ile
20 25 30

Phe Ser Asp Thr Ile Arg Thr Met Gly Trp Tyr Arg Gln Ala Ala Gly
35 40 45

Lys Gln Arg Glu Leu Val Ala Thr Ile Ala Ser Phe Pro Ser Arg Thr
50 55 60

Asn Tyr Val Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile
65 70 75 80

Ala Lys Asn Thr Val Tyr Leu Gln Met Asp Ser Leu Lys Pro Glu Asp
85 90 95

Thr Ala Val Tyr Tyr Cys Asn Val Asp Leu Ala Ser Ile Pro Thr Lys
100 105 110

```
Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    130                 135                 140

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
145                 150                 155                 160

Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly
                165                 170                 175

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
            180                 185                 190

Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg
        195                 200                 205

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
    210                 215                 220

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn
225                 230                 235                 240

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
                245                 250                 255

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
            260                 265                 270

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
        275                 280                 285

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
    290                 295                 300

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
```

305 310 315 320

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
325 330 335

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
340 345 350

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
355 360 365

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His
370 375 380

His His His His His
385

<210> 889
<211> 388
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 889
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile
20 25 30

Phe Gly Ile Asn Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln
35 40 45

Arg Glu Ser Val Ala Phe Ile Thr Ile Gly Gly Asn Thr Asn Tyr Leu
50 55 60

```
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Gly Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Tyr Cys Asn Thr Asn Pro Pro Leu Ile Leu Thr Ala Gly Gly Leu
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    130                 135                 140

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
145                 150                 155                 160

Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys
                165                 170                 175

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
            180                 185                 190

Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
        195                 200                 205

Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
    210                 215                 220

Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser
225                 230                 235                 240

Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
                245                 250                 255

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
```

260 265 270

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
275 280 285

Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser
290 295 300

Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
305 310 315 320

Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg
325 330 335

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
340 345 350

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser
355 360 365

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His
370 375 380

His His His His
385

<210> 890
<211> 389
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 890
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

```
Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Thr Ser Ala Asn Arg
            20                  25                  30

Phe Asn Ile Asn Val Met Gly Trp Tyr Arg Gln Ala Pro Gly Gln Gln
        35                  40                  45

Arg Glu Leu Val Ala Thr Ile Asn Ile Gly Gly Ser Thr Asp Tyr Ala
    50                  55                  60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Leu Ser Asp Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Tyr Cys Asn Val Lys Leu Arg Val Ser Gly Pro Thr Gly Pro Asn
            100                 105                 110

Val Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    130                 135                 140

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
145                 150                 155                 160

Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly
                165                 170                 175

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
            180                 185                 190

Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg
        195                 200                 205

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
```

```
    210                 215                 220

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn
225                 230                 235                 240

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
                245                 250                 255

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
            260                 265                 270

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
        275                 280                 285

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
    290                 295                 300

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
305                 310                 315                 320

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
                325                 330                 335

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
            340                 345                 350

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
        355                 360                 365

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His
    370                 375                 380

His His His His His
385
```

<210> 891
<211> 384

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 891
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Ala Gly Gly Ser Leu Lys Leu Ser Cys Thr Ala Ser Gly Thr Ile
20 25 30

Leu Ser Thr Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu
35 40 45

Leu Val Ala Thr Ile Ser Arg Gly Gly Thr Thr Asn Tyr Ser Asp Ser
50 55 60

Val Lys Gly Arg Phe Ala Ile Ser Arg Asp Ser Thr Lys Asn Thr Val
65 70 75 80

Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Asn Thr Pro Leu Thr Asp Tyr Gly Met Gly Tyr Asn Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
130 135 140

Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
145 150 155 160

Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp

```
                165                 170                 175

Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala
            180                 185                 190

Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
        195                 200                 205

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
    210                 215                 220

Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
225                 230                 235                 240

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
                245                 250                 255

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val
            260                 265                 270

Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr
        275                 280                 285

Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro
    290                 295                 300

Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly
305                 310                 315                 320

Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser
                325                 330                 335

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
            340                 345                 350

Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val
        355                 360                 365
```

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His His His His
    370                 375                 380

<210> 892
<211> 388
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 892
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Ser Ile
            20                  25                  30

Phe Ser Leu Asn Thr Leu Ala Trp Tyr Arg Gln Ala Pro Gly Arg Gln
        35                  40                  45

Arg Asp Leu Ile Ala Arg Ile Thr Gly Gly Gly Thr Thr Val Tyr Ala
    50                  55                  60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Tyr Cys Asn Leu Met Val Arg His Pro Ser Gly Ser Thr Tyr Glu
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu

```
    130                 135                 140

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
145                 150                 155                 160

Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys
                165                 170                 175

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
            180                 185                 190

Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
        195                 200                 205

Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
    210                 215                 220

Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser
225                 230                 235                 240

Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
                245                 250                 255

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
            260                 265                 270

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
        275                 280                 285

Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser
    290                 295                 300

Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
305                 310                 315                 320

Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg
                325                 330                 335
```

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
            340                 345                 350

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser
        355                 360                 365

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His
    370                 375                 380

His His His His
385

<210> 893
<211> 380
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 893
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1               5                   10                  15

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
            20                  25                  30

Phe Ser Asp Trp Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
        35                  40                  45

Leu Glu Trp Val Ser Gly Ile His Tyr Gly Asp His Thr Thr His Tyr
    50                  55                  60

Ala Asp Phe Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys
65                  70                  75                  80

Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala

```
                85                  90                  95

Val Tyr Tyr Cys Ala Arg Gly Ser Thr Lys Gly Gln Gly Thr Gln Val
            100                 105                 110

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
        115                 120                 125

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175

Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
                245                 250                 255

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285
```

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
290 295 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305 310 315 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
325 330 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
340 345 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
355 360 365

Thr Lys Leu Thr Val Leu His His His His His His
370 375 380

<210> 894
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 894
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val
1 5 10 15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile
20 25 30

Phe Arg Ala Ala Ser Met Ala Trp Tyr Arg Gln Ser Pro Gly Asn Glu
35 40 45

Arg Glu Leu Val Ala Ser Ile Ser Ser Gly Ala Phe Thr Asn Tyr Ala

```
    50                  55                  60

Asp Ser Val Lys Ala Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
                85                  90                  95

Tyr Phe Cys Gly Ala Thr Phe Leu Arg Ser Asp Gly His His Thr Ile
            100                 105                 110

Asn Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255
```

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
260 265 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
275 280 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
290 295 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305 310 315 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
325 330 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
340 345 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
355 360 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
370 375 380

His His His
385

<210> 895
<211> 387
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 895
Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val

```
1               5                   10                  15

Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Ile
            20                  25                  30

Phe Arg Gly Thr Thr Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gln
        35                  40                  45

Arg Glu Ser Val Ala Ser Ile Ser Pro Leu Gly Thr Thr Ser Tyr Ser
    50                  55                  60

Gly Ser Val Glu Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn
65                  70                  75                  80

Thr Leu Phe Leu Gln Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val
                85                  90                  95

Tyr Tyr Cys Asn Ala Ile Gln Val Thr Asn Val Gly Pro Arg Val Tyr
            100                 105                 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205
```

```
Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            340                 345                 350

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu His His His
    370                 375                 380

His His His
385
```

<210> 896
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 896
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Gly Asn His
20 25 30

Trp Met Tyr Trp Tyr Arg Gln Ala Pro Gly Arg Gly Arg Glu Leu Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Ser Thr Asn Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Gly
85 90 95

Thr Ser Asp Asn Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 897
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 897

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala
            20                  25                  30

Ser Met Asp Trp Tyr Arg Gln Phe Pro Gly Asn Glu Arg Glu Ser Ile
        35                  40                  45

Ala Thr Ile Ser Ser Gly Gly Phe Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Gly
                85                  90                  95

Ala Thr Phe Leu Arg Ser Asp Gly His His Thr Ile Asn Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 898
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 898
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala
            20                  25                  30

Ser Met Ala Trp Tyr Arg Gln Ser Pro Gly Asn Glu Arg Glu Leu Val
        35                  40                  45

Ala Ser Ile Ser Ser Gly Ala Phe Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

Ala Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Gly
                85                  90                  95

Ala Thr Phe Leu Arg Ser Asp Gly His His Thr Ile Asn Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115

<210> 899
<211> 382
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 899
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

```
Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255
```

```
Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
            260                 265                 270


Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Thr Leu Ser Cys Ala
        275                 280                 285


Ala Ser Gly Phe Ala Phe Gly Asn His Trp Met Tyr Trp Tyr Arg Gln
    290                 295                 300


Ala Pro Gly Arg Gly Arg Glu Leu Val Ala Ser Ile Ser Ser Gly Gly
305                 310                 315                 320


Ser Thr Asn Tyr Val Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335


Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
            340                 345                 350


Glu Asp Thr Ala Val Tyr Tyr Cys Gly Thr Ser Asp Asn Trp Gly Gln
        355                 360                 365


Gly Thr Leu Val Thr Val Ser Ser His His His His His His
    370                 375                 380


<210> 900
<211> 390
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 900
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1               5                   10                  15


Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
            20                  25                  30
```

```
Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
        35                  40                  45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
    50                  55                  60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65                  70                  75                  80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
                85                  90                  95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
            100                 105                 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220
```

```
Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240


Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255


Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser
            260                 265                 270


Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Thr Leu Ser Cys Ala
        275                 280                 285


Ala Ser Gly Phe Ile Phe Arg Ala Ala Ser Met Asp Trp Tyr Arg Gln
    290                 295                 300


Phe Pro Gly Asn Glu Arg Glu Ser Ile Ala Thr Ile Ser Ser Gly Gly
305                 310                 315                 320


Phe Thr Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
                325                 330                 335


Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
            340                 345                 350


Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Thr Phe Leu Arg Ser Asp
        355                 360                 365


Gly His His Thr Ile Asn Gly Gln Gly Thr Leu Val Thr Val Ser Ser
    370                 375                 380


His His His His His His
385                 390


<210> 901
<211> 390
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 901
Val Val Gly Gly Gly Gly Thr Gln Thr Val Val Thr Gln Glu Pro Ser
1 5 10 15

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
20 25 30

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
35 40 45

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
50 55 60

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
65 70 75 80

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
85 90 95

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
130 135 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145 150 155 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

```
Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser
            260                 265                 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Thr Leu Ser Cys Ala
        275                 280                 285

Ala Ser Gly Phe Ile Phe Arg Ala Ala Ser Met Ala Trp Tyr Arg Gln
    290                 295                 300

Ser Pro Gly Asn Glu Arg Glu Leu Val Ala Ser Ile Ser Ser Gly Ala
305                 310                 315                 320

Phe Thr Asn Tyr Ala Asp Ser Val Lys Ala Arg Phe Thr Ile Ser Arg
                325                 330                 335

Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
            340                 345                 350

Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Thr Phe Leu Arg Ser Asp
        355                 360                 365
```

Gly His His Thr Ile Asn Gly Gln Gly Thr Leu Val Thr Val Ser Ser
370 375 380

His His His His His His
385 390

<210> 902
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 902
Gln Asp Gly Asn Glu Glu Met Gly Gly Ile Thr Gln
1 5 10

<210> 903
<211> 6
<212> PRT
<213> Homo sapiens

<400> 903
Leu Val Gln Pro Gly Asn
1 5

<210> 904
<211> 6
<212> PRT
<213> Homo sapiens

<400> 904
Asp Ser Val Lys Gly Arg
1 5

<210> 905
<211> 6
<212> PRT
<213> Homo sapiens

<400> 905
Ser Leu Arg Pro Glu Asp

1 5

<210> 906
<211> 507
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 906
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val
115 120 125

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
130 135 140

```
Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
145                 150                 155                 160

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
                165                 170                 175

Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
            180                 185                 190

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
        195                 200                 205

Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe
    210                 215                 220

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly
225                 230                 235                 240

Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
                245                 250                 255

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala
            260                 265                 270

Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala
        275                 280                 285

Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn
    290                 295                 300

Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile
305                 310                 315                 320

Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
                325                 330                 335

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe
```

```
            340                 345                 350

Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
        355                 360                 365

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
    370                 375                 380

Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala Ala Ser Met
                405                 410                 415

Ala Trp Tyr Arg Gln Ser Pro Gly Asn Glu Arg Glu Leu Val Ala Ser
            420                 425                 430

Ile Ser Ser Gly Ala Phe Thr Asn Tyr Ala Asp Ser Val Lys Ala Arg
        435                 440                 445

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
    450                 455                 460

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Thr
465                 470                 475                 480

Phe Leu Arg Ser Asp Gly His His Thr Ile Asn Gly Gln Gly Thr Leu
                485                 490                 495

Val Thr Val Ser Ser His His His His His His
            500                 505


<210> 907
<211> 383
<212> PRT
<213> Artificial Sequence

<220>
```

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 907

```
Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1               5                   10                  15


Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
            20                  25                  30


Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
        35                  40                  45


Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
    50                  55                  60


Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
65                  70                  75                  80


Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
                85                  90                  95


Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
            100                 105                 110


Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu
        115                 120                 125


Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu
    130                 135                 140


Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp
145                 150                 155                 160


Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
                165                 170                 175


Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp
```

```
            180                 185                 190

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
        195                 200                 205

Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
    210                 215                 220

His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
225                 230                 235                 240

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
                245                 250                 255

Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro
            260                 265                 270

Gly Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg
        275                 280                 285

Ala Ala Ser Met Ala Trp Tyr Arg Gln Ser Pro Gly Asn Glu Arg Glu
    290                 295                 300

Leu Val Ala Ser Ile Ser Ser Gly Ala Phe Thr Asn Tyr Ala Asp Ser
305                 310                 315                 320

Val Lys Ala Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
                325                 330                 335

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
            340                 345                 350

Cys Gly Ala Thr Phe Leu Arg Ser Asp Gly His His Thr Ile Asn Gly
        355                 360                 365

Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
    370                 375                 380
```

<210> 908
<211> 526
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 908
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
20 25 30

Gly Met Ser Trp Val Arg Gln Gly Gly Gly Gly Gly Leu Asp Gly Asn
35 40 45

Glu Glu Pro Gly Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
50 55 60

Arg Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
65 70 75 80

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
85 90 95

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
100 105 110

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Val Val Gly Gly Gly Gly Thr Gln
130 135 140

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr

```
145                 150                 155                 160

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
                165                 170                 175

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
            180                 185                 190

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
        195                 200                 205

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
    210                 215                 220

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
225                 230                 235                 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
            260                 265                 270

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
        275                 280                 285

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
    290                 295                 300

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
305                 310                 315                 320

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg
                325                 330                 335

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
            340                 345                 350
```

```
Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
        355                 360                 365

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
    370                 375                 380

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
385                 390                 395                 400

Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                405                 410                 415

Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ala
            420                 425                 430

Ala Ser Met Ala Trp Tyr Arg Gln Ser Pro Gly Asn Glu Arg Glu Leu
        435                 440                 445

Val Ala Ser Ile Ser Ser Gly Ala Phe Thr Asn Tyr Ala Asp Ser Val
    450                 455                 460

Lys Ala Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
465                 470                 475                 480

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                485                 490                 495

Gly Ala Thr Phe Leu Arg Ser Asp Gly His His Thr Ile Asn Gly Gln
            500                 505                 510

Gly Thr Leu Val Thr Val Ser Ser His His His His His His
        515                 520                 525

<210> 909
<211> 10
<212> PRT
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<213> Unknown

<220>
<223> Description of Unknown:
Protease cleavage site sequence

<400> 909
Pro Gln Gly Ser Thr Ala Arg Ser Ala Gly
1 5 10

<210> 910
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 910
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Val Ser Met Phe Asn
20 25 30

Ser Met Gly Trp His Arg Gln Pro Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ile Ile Thr Ser Gly Gly Ser Ser Asn Tyr Ala Asp Thr Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Asp Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Phe
85 90 95

Tyr Tyr Phe Gln Ser Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 911
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 911
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Lys Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Val Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 912
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 912
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Val Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Arg Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Gln Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 913
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 913

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Val Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Val Ser Gly Ser Ser Ala Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 914
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 914
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30
```

```
Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Pro
        35                  40                  45

Ala Gly Ile Ser Arg Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95

Tyr Phe Arg Tyr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115
```

<210> 915
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 915

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
        35                  40                  45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Leu Tyr Ala Asp Ser Val Lys
    50                  55                  60
```

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 916
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 916
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Arg Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr

85 90 95

Tyr Phe Arg Arg Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 917
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 917
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Ala
35 40 45

Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe His Thr Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
        115


<210> 918
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 918
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
            20                  25                  30


Ala Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Gln Val Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 919
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 919
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Ser Ser Asp Thr Ser Lys Val Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
85 90 95

Tyr Phe Arg Thr Val Ser Gly Ser Tyr Met Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 920
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 920

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Thr Leu Ser Cys Val Ala Ser Gly Ser Thr Ser Thr Ile Asn
            20                  25                  30


Ala Met Gly Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45


Ala Gly Ile Ser Ser Asp Gly Ser Lys Val Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
                85                  90                  95


Tyr Phe Arg Thr Ala Ser Gly Ser Ser Met Arg Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210> 921
<211> 5
<212> PRT
<213> Homo sapiens

<400> 921
Gln Asp Gly Asn Glu
1               5


<210> 922
<211> 4
<212> PRT
<213> Homo sapiens

<400> 922
Asp Gly Asn Glu
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1

<210> 923
<211> 5
<212> PRT
<213> Homo sapiens

<400> 923
Asp Gly Asn Glu Glu
1 5

<210> 924
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
protease cleavage site

<400> 924
Gly Pro Leu Gly Ile Ala Gly Gln
1 5

<210> 925
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
protease cleavage site

<400> 925
Ala Val Arg Trp Leu Leu Thr Ala
1 5

<210> 926
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
protease cleavage site

<400> 926
Arg Arg Arg Arg Arg Arg
1               5


<210> 927
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      6xHis tag

<400> 927
His His His His His His
1               5


<210> 928
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 928
Gly Gly Gly Gly Ser Gly Gly Gly Ser
1               5


<210> 929
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide


<220>
<221> MOD_RES
<222> (5)..(14)
<223> Any amino acid

<400> 929
Gly Gly Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly
1               5                   10                  15


Gly Gly



<210> 930
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 930
Leu Val Gln Pro Gly Asn
1               5


<210> 931
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 931
Ala Pro Gly Lys Gly
1               5


<210> 932
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 932
Asp Ser Val Lys Gly Arg
1               5

<210> 933
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 933
Ser Leu Arg Pro Glu Asp
1 5

<210> 934
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Any amino acid

<400> 934
Cys Phe Cys Xaa Leu Cys Phe Arg
1 5

<210> 935
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 935
Ser Thr Gln Asp Met
1 5

<210> 936
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 936
Asp Ser Val Lys Gly Arg
1 5

<210> 937
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 937
Ser Leu Arg Pro Glu Asp
1 5

<210> 938
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 938
Leu Val Gln Pro Gly Asn
1 5

<210> 939
<211> 5
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 939
Lys Gln His Ser Asn
1 5

<210> 940
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 940
Asp Ser Val Lys Gly Arg
1 5

<210> 941
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 941
Ser Leu Arg Pro Glu Asp
1 5

<210> 942
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 942
Ile Val Leu Tyr Glu Trp
1 5

<210> 943
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 943
Ala Pro Leu Val
1

<210> 944
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 944
Ser Ser Met Ile Gln Met
1 5

<210> 945
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 945
Ser Leu Arg Pro Glu Asp
1 5

<210> 946
<211> 6
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 946
Cys Phe Met Cys Tyr Trp
1 5

<210> 947
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 947
Asp Met Trp Gly Ala Asn Cys Ser
1 5

<210> 948
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 948
Asp Ser Val Lys Gly Arg
1 5

<210> 949
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 949
Ser Leu Arg Pro Glu Asp
1 5

<210> 950
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 950
Phe Tyr Leu Ala Trp Ala Ala
1 5

<210> 951
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 951
Ile Asn Val Gly Ser Pro Ala Tyr
1 5

<210> 952
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 952
Asp Ser Val Lys Gly Arg
1 5

<210> 953
<211> 6
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 953
Ser Leu His Pro Glu Asp
1 5

<210> 954
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 954
Gly Leu Ser Asn Arg Ser Gly Cys
1 5

<210> 955
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 955
Cys Ser Val Gly Ile Ser Arg Gln
1 5

<210> 956
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 956
Leu Leu Leu Ile Phe Lys Phe
1 5

<210> 957
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 957
Leu Met Arg Ile
1

<210> 958
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 958
Phe Phe Asn Ser Glu Gln Phe
1 5

<210> 959
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 959
Ala Pro Gly Lys Gly
1 5

<210> 960
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 960
Phe Leu Ile Leu Ala Leu Thr Lys Pro
1 5

<210> 961
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 961
Gln Leu Met Ile
1

<210> 962
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 962
Leu Val Gln Pro Gly Asn
1 5

<210> 963
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 963
Leu Arg Gly Gly Leu His Arg Val
1 5

<210> 964
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 964
Ser Lys Trp Ala Cys Gly
1 5

<210> 965
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 965
Val Tyr Met Phe Asn Leu Val Asp
1 5

<210> 966
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 966
Gln Leu Glu Thr Pro Cys
1 5

<210> 967
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 967
Asn Tyr Arg Trp Ile Ser Leu
1 5

<210> 968
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 968
Ser Leu Arg Pro Glu Asp
1 5

<210> 969
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 969
Leu Val Gln Pro Gly Asn
1 5

<210> 970
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 970
Ala Pro Gly Lys Gly
1 5

<210> 971
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 971
Ser Val Leu Phe Gly Val Ala Tyr Leu
1 5

<210> 972
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 972
Ser Leu Arg Pro Glu Asp
1 5

<210> 973
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 973
Phe Gly Pro Tyr Asn Leu Val Ser
1 5

<210> 974
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 974
Lys Leu Ser Thr Ile Trp Met
1 5

<210> 975
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 975
Met Arg Arg Pro Cys Val Ile Ser
1 5

<210> 976
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 976
Val Pro Ser Tyr Arg Val Ala
1 5

<210> 977
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 977
Asp Ser Gly Leu Thr Leu Arg
1 5

<210> 978
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 978
Leu Leu Trp His Trp Asp
1 5

<210> 979
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 979
Val Thr Glu Met Asn Ala Met Ser
1 5

<210> 980
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Any amino acid

<400> 980
Gly Xaa Thr Asp Gly Gly Thr
1 5

<210> 981
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Any amino acid

<400> 981
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1 5

<210> 982
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1 5

<210> 983
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1 5

<210> 984

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<210> 994
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<220>
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1 5

<210> 995
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1 5

<210> 996
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<210> 997
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<220>
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<210> 998
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1 5

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1               5


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1 5

<210> 1005
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1 5

<210> 1006
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<220>
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<210> 1007
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<210> 1010
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<210> 1014
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<210> 1015
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1 5

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<210> 1021
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<210> 1036
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<210> 1047
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1 5

<210> 1048
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1 5

<210> 1049
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<210> 1050
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1 5

<210> 1051
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1 5

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peptide

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<210> 1056
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peptide

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1 5

<210> 1058
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<210> 1059
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1 5

<210> 1060
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1 5

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peptide

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1 5

<210> 1062
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<210> 1063
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peptide

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<210> 1064
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1 5

<210> 1065
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1 5

<210> 1066
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peptide

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<210> 1067
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peptide

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<210> 1068
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<220>
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peptide

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1 5

<210> 1069
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peptide

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1 5

<210> 1070
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peptide

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1 5

<210> 1071
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peptide

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<210> 1072
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peptide

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1 5

<210> 1073
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peptide

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1 5

<210> 1074
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peptide

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1 5

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peptide

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1 5

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1 5

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1 5

<210> 1079
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<210> 1080
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1 5

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<210> 1083
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1 5

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1 5

<210> 1086
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<210> 1087
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<210> 1088
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1 5

<210> 1089
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1 5

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1 5

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peptide

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1 5

<210> 1095
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<210> 1096
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peptide

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1 5

<210> 1097
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<210> 1098
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1 5

<210> 1099
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1 5

<210> 1100
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<210> 1102
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<210> 1104
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<220>

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1 5

<210> 1105
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<210> 1106
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1 5

<210> 1107
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<220>
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<210> 1108
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<220>
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1 5

<210> 1109
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<210> 1110
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<210> 1111
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1 5

<210> 1113
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<210> 1114
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<210> 1115
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<210> 1120
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<210> 1121
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<220>
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<210> 1123
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<210> 1124
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<210> 1125
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<210> 1127
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<400> 1127
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<210> 1128
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<400> 1128
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<210> 1129
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<400> 1130
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<210> 1131
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<210> 1132
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<210> 1133
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<210> 1134
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<210> 1136
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peptide

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1 5

<210> 1137
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<400> 1138
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<210> 1139
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<220>
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peptide

<400> 1139
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1 5

<210> 1140
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<220>
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peptide

<400> 1140
Ser Leu Arg Pro Glu Asp

1 5