SEQUENCE LISTING

<110> PFIZER INC.

<120> ANTIBODIES SPECIFIC FOR FLT3 AND THEIR USES

<130> PC72360A

<150> US 62/514,574
<151> 2017-06-02

<150> US 62/660,908
<151> 2018-04-20

<160> 293

<170> PatentIn version 3.5

<210> 1
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 1

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser His Ser Val Ser Ser Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Pro Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 2
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 2

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

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

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

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

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Arg Thr Ala Tyr
65 70 75 80

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

Ala Arg Asp Ser Trp Ser Gly Ala Thr Gly Ala Ser Asp Thr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 3
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 3

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

```
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Tyr Val Ser Ala Ser
            20                  25                  30

Leu Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
        35                  40                  45

Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65                  70                  75                  80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ala Arg Ser Ser
                85                  90                  95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
```

<210> 4
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 4

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

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

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

Gly Gly Ile Ile Pro Ala Phe Gly Ile Ala Asn Tyr Ala Gln Lys Phe
    50                  55                  60

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

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


Ala Lys Gly Gly Ser Tyr Ser Leu Asp Tyr Phe Asp Ile Trp Gly Gln
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  5
<211>  107
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  5

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


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


Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45


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


Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80


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


Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105


<210>  6
<211>  119
<212>  PRT
<213>  Artificial Sequence
```

<220>
<223> Synthetic Construct

<400> 6

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

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

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

Gly Gly Ile Ile Pro Val Ser Gly Arg Ala Asn Tyr Ala Gln Lys Phe
    50   55   60

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

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

Ala Arg Val Arg Pro Thr Tyr Trp Pro Leu Asp Tyr Trp Gly Gln Gly
            100   105   110

Thr Leu Val Thr Val Ser Ser
        115

<210> 7
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 7

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

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
            20   25   30

```
Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
        35                  40                  45

Met Ile Tyr Glu Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe
    50                  55                  60

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

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

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

<210> 8
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 8

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

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

Tyr Ile Gly Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45

Gly Gly Ile Ile Pro Trp Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
    50                  55                  60

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

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

```
Ala Ala Asp His His Asp Ser Pro Ser Gly Tyr Thr Ser Gly Gly Phe
            100                 105                 110


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


<210>  9
<211>  110
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  9

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


Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
            20                  25                  30


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


Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
    50                  55                  60


Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
65                  70                  75                  80


Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
                85                  90                  95


Ser Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
            100                 105                 110


<210>  10
<211>  123
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  10
```

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


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


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


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


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


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


Ala Arg Asp Arg Val Met Ala Gly Leu Gly Tyr Asp Pro Phe Asp Tyr
            100                 105                 110


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


<210>  11
<211>  110
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  11

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


Arg Val Thr Ile Ser Cys Ser Gly Ser Gly Ser Asn Ile Gly Ser Asn
            20                  25                  30


Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
        35                  40                  45
```

```
Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
65                  70                  75                  80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Gly Ser Leu
                85                  90                  95

Ser Arg Pro Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu
            100                 105                 110
```

<210> 12
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 12

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Ser Ser Phe
            20                  25                  30

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

Ser Asp Ile Ser Gly Ser Gly Ala 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 Ser Ala Ser Gly Gly Ser Gly Ser Tyr Trp Pro Tyr Met Asp Pro
            100                 105                 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
```

115 120

<210> 13
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 13

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Pro Asn Glu
20 25 30

Gln Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Pro Pro
85 90 95

Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 14
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 14

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

```
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Val Phe Ser Arg Tyr
            20                  25                  30

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

Gly Gly Ile Ile Pro Met Leu Gly Phe Ala Asn Tyr Ala Gln Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65                  70                  75                  80

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

Ala Thr Leu Asp Phe Gly Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser
        115


<210>  15
<211>  108
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  15

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
            20                  25                  30

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

Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
```

65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asp Ser Ser Pro
85 90 95

Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 16
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 16

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

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

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

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

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Ser Asp Leu Gly Ala Pro Trp Ala Gly Tyr Pro Phe Asp Pro Trp
100 105 110

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

<210> 17
<211> 107

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 17

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

Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Ser Val
20 25 30

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

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

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Ser Thr Ala Trp
85 90 95

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 18
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 18

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

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

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

```
        35                  40                  45

Ser Ala Ile Ser Gly Ser Gly 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 Arg Gly Thr Arg Trp Trp Trp Gly Asp Ala Phe Asp His Trp Gly
            100                 105                 110

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

<210> 19
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 19

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Pro Ser Ser
            20                  25                  30

Gln Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
        35                  40                  45

Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65                  70                  75                  80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
                85                  90                  95
```

Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 20
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 20

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

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

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

Gly Gly Ile Val Gly Ser Trp Gly Leu Ala Asn Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Thr Ser Ala Phe Gly Glu Leu Ala Ser Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 21
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 21

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ala Val Asp Ser Ser
20 25 30

Asp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Asp Ala Tyr Thr Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 22
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 22

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Val Phe Ser Arg Tyr
20 25 30

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

Gly Gly Ile Ile Pro Met Leu Gly Phe Ala Asn Tyr Ala Gln Lys Phe
50 55 60

```
Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65                  70                  75                  80


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


Ala Thr Leu Asp Phe Gly Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210>  23
<211>  107
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  23

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


Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
            20                  25                  30


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


Tyr Asp Thr Phe Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
    50                  55                  60


Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
65                  70                  75                  80


Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Pro
                85                  90                  95


Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
            100                 105
```

<210> 24
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 24

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

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

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

Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
100 105 110

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 25
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 25

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

```
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Asn Thr
            20                  25                  30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
        35                  40                  45

Ile Tyr Asp Thr Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65                  70                  75                  80

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
```

<210> 26
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 26

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

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

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

Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
            100                 105                 110


Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  27
<211>  107
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  27

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


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


Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45


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


Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80


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


Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105


<210>  28
<211>  116
<212>  PRT
<213>  Artificial Sequence
```

<220>
<223> Synthetic Construct

<400> 28

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

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

Ser Val Ile Ser Gly Ser Gly Gly Thr 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 Ser Gly Ile Trp Asp Leu Arg Tyr Trp Gly Gln Gly Thr Leu Val
            100   105   110

Thr Val Ser Ser
        115

<210> 29
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 29

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ile Val Ser Ser Ser
            20   25   30

```
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
        35                  40                  45

Ile Tyr Gly Ala Ser Ser Arg Ala Ser Gly Ile Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65                  70                  75                  80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Gly Ser Pro
                85                  90                  95

Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
```

<210> 30
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 30

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

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

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

Gly Gly Ile Ile Pro Ile Phe Gly Ile Ala Asn Tyr Ala Gln Lys Phe
    50                  55                  60

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

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

```
Ala Arg Glu Thr Leu Ile Tyr Pro Ile Pro Phe Glu Leu Trp Gly Gln
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  31
<211>  108
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  31

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


Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser His Ser
            20                  25                  30


Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
        35                  40                  45


Ile Tyr Gly Ala Ser Phe Arg Ala Ala Gly Ile Pro Asp Arg Phe Ser
    50                  55                  60


Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65                  70                  75                  80


Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Asp Pro
                85                  90                  95


Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105


<210>  32
<211>  123
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  32
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```
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1               5                   10                  15


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


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


Gly Gly Ile Ile Pro Ile Phe Gly Ile Ala Asn Tyr Ala Gln Lys Phe
    50                  55                  60


Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65                  70                  75                  80


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


Ala Ile Glu Gly Ile Gly Gly Asp Leu Arg Tyr Asp Gly Tyr Asp Ala
            100                 105                 110


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


<210>  33
<211>  107
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  33

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


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


Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45
```

```
Tyr Asp Ala Ser Asp Leu Gln Arg Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
```

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<220>
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<400> 34

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

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

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

Ser Ala Ile Ser Gly Ser Gly Ala Thr 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

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

Thr Val Ser Ser
```

115

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<212> PRT
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<400> 35

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

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

Tyr Val Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val
35 40 45

Val Tyr Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser
50 55 60

Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu
65 70 75 80

Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ser
85 90 95

Asp His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 36
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 36

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

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


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


Ser Ala Ile Gly Gly Ser Gly 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 Met Tyr Tyr Cys
                85                  90                  95


Ala Arg Asp Tyr Tyr Ala Phe Ser Asp Pro Ala Tyr Gly Gly Met Asp
            100                 105                 110


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


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<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  37

Ser Tyr Gly Ile Ser
1               5


<210>  38
<211>  7
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  38

Gly Gly Thr Phe Gly Ser Tyr
1               5
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<210> 39
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 39

Gly Gly Thr Phe Gly Ser Tyr Gly Ile Ser
1 5 10

<210> 40
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 40

Gly Ile Ile Pro Ile Phe Gly Thr Val Thr Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 41
<211> 6
<212> PRT
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<220>
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<400> 41

Ile Pro Ile Phe Gly Thr
1 5

<210> 42
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
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<400> 42

Asp Ser Trp Ser Gly Ala Thr Gly Ala Ser Asp Thr
1 5 10

<210> 43
<211> 5
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<213> Artificial Sequence

<220>
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<400> 43

Ser Tyr Thr Ile Ser
1 5

<210> 44
<211> 7
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<220>
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<400> 44

Gly Gly Thr Phe Ser Ser Tyr
1 5

<210> 45
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 45

Gly Gly Thr Phe Ser Ser Tyr Thr Ile Ser
1 5 10

<210> 46
<211> 17
<212> PRT
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<220>
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<400> 46

Gly Ile Ile Pro Ala Phe Gly Ile Ala Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 47
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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<400> 47

Ile Pro Ala Phe Gly Ile
1 5

<210> 48
<211> 11
<212> PRT
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<220>
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<400> 48

Gly Gly Ser Tyr Ser Leu Asp Tyr Phe Asp Ile
1 5 10

<210> 49
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 49

Ser Tyr Asp Ile Ser
1 5

<210> 50
<211> 10

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 50

Gly Gly Thr Phe Ser Ser Tyr Asp Ile Ser
1 5 10

<210> 51
<211> 17
<212> PRT
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<220>
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<400> 51

Gly Ile Ile Pro Val Ser Gly Arg Ala Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 52
<211> 6
<212> PRT
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<220>
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<400> 52

Ile Pro Val Ser Gly Arg
1 5

<210> 53
<211> 10
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<220>
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<400> 53

Val Arg Pro Thr Tyr Trp Pro Leu Asp Tyr

1 5 10

<210> 54
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<220>
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<400> 54

Ser Tyr Tyr Ile Gly
1 5

<210> 55
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<220>
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<400> 55

Gly Gly Thr Phe Ser Ser Tyr
1 5

<210> 56
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 56

Gly Gly Thr Phe Ser Ser Tyr Tyr Ile Gly
1 5 10

<210> 57
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<212> PRT
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<220>
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<400> 57

Gly Ile Ile Pro Trp Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 58
<211> 6
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<220>
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<400> 58

Ile Pro Trp Phe Gly Thr
1 5

<210> 59
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 59

Asp His His Asp Ser Pro Ser Gly Tyr Thr Ser Gly Gly Phe Asp Val
1 5 10 15

<210> 60
<211> 5
<212> PRT
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<220>
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<400> 60

Ser Tyr Ala Met Ser
1 5

<210> 61
<211> 7
<212> PRT
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<220>
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<400> 61

Gly Phe Ile Phe Ser Ser Phe
1   5

<210> 62
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 62

Gly Phe Ile Phe Ala Ser Tyr Ala Met Ser
1   5   10

<210> 63
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 63

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

Gly

<210> 64
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<212> PRT
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<220>
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<400> 64

Ser Ser Ser Gly Gly Ser
1   5

<210> 65
<211> 14
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<220>
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<400> 65

Asp Arg Val Met Ala Gly Leu Gly Tyr Asp Pro Phe Asp Tyr
1 5 10

<210> 66
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 66

Ser Phe Ala Met Ser
1 5

<210> 67
<211> 7
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<213> Artificial Sequence

<220>
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<400> 67

Gly Phe Ile Phe Ser Ser Phe
1 5

<210> 68
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 68

Gly Phe Ile Phe Ser Ser Phe Ala Met Ser
1 5 10

<210> 69
<211> 17
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<213> Artificial Sequence

<220>
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<400> 69

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

Gly

<210> 70
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<212> PRT
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<220>
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<400> 70

Ser Gly Ser Gly Ala Ser
1 5

<210> 71
<211> 14
<212> PRT
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<220>
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<400> 71

Ala Ser Gly Gly Ser Gly Ser Tyr Trp Pro Tyr Met Asp Pro
1 5 10

<210> 72
<211> 5
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<220>
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<400> 72

Arg Tyr Ala Leu Ser
1 5

<210> 73
<211> 7
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<220>
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<400> 73

Gly Gly Val Phe Ser Arg Tyr
1 5

<210> 74
<211> 10
<212> PRT
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<220>
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<400> 74

Gly Gly Val Phe Ser Arg Tyr Ala Leu Ser
1 5 10

<210> 75
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<213> Artificial Sequence

<220>
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<400> 75

Gly Ile Ile Pro Met Leu Gly Phe Ala Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 76
<211> 6
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<213> Artificial Sequence

<220>
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<400> 76

Ile Pro Met Leu Gly Phe
1   5

<210> 77
<211> 8
<212> PRT
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<220>
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<400> 77

Leu Asp Phe Gly Ala Leu Asp Tyr
1   5

<210> 78
<211> 5
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<220>
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<400> 78

Ser Phe Asp Ile Ser
1   5

<210> 79
<211> 7
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<220>
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<400> 79

Gly Gly Thr Phe Arg Ser Phe
1   5

<210> 80
<211> 10

<212> PRT
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<220>
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<400> 80

Gly Gly Thr Phe Arg Ser Phe Asp Ile Ser
1 5 10

<210> 81
<211> 17
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<220>
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<400> 81

Arg Ile Ile Pro Ile Leu Gly Tyr Ala Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 82
<211> 6
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<220>
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<400> 82

Ile Pro Ile Leu Gly Tyr
1 5

<210> 83
<211> 13
<212> PRT
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<220>
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<400> 83

Asp Leu Gly Ala Pro Trp Ala Gly Tyr Pro Phe Asp Pro

1 5 10

<210> 84
<211> 5
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<213> Artificial Sequence

<220>
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<400> 84

Ser Tyr Ala Met His
1 5

<210> 85
<211> 7
<212> PRT
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<220>
<223> Synthetic Construct

<400> 85

Gly Phe Thr Phe Ser Ser Tyr
1 5

<210> 86
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 86

Gly Phe Thr Phe Ser Ser Tyr Ala Met His
1 5 10

<210> 87
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 87

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

Gly

<210> 88
<211> 6
<212> PRT
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<220>
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<400> 88

Ser Gly Ser Gly Gly Ser
1 5

<210> 89
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
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<400> 89

Gly Thr Arg Trp Trp Trp Gly Asp Ala Phe Asp His
1 5 10

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<211> 5
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<400> 90

Ser Tyr Ala Ile Gln
1 5

<210> 91
<211> 7
<212> PRT
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<220>
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<400> 91

Gly Gly Thr Phe Ser Ser Tyr
1   5

<210> 92
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 92

Gly Gly Thr Phe Ser Ser Tyr Ala Ile Gln
1   5   10

<210> 93
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 93

Gly Ile Val Gly Ser Trp Gly Leu Ala Asn Tyr Ala Gln Lys Phe Gln
1   5   10   15

Gly

<210> 94
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<400> 94

Val Gly Ser Trp Gly Leu
1   5

<210> 95
<211> 8
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<220>
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<400> 95

Ser Ala Phe Gly Glu Leu Ala Ser
1 5

<210> 96
<211> 5
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<213> Artificial Sequence

<220>
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<400> 96

Arg Tyr Ala Leu Ser
1 5

<210> 97
<211> 7
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<220>
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<400> 97

Gly Gly Val Phe Ser Arg Tyr
1 5

<210> 98
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 98

Gly Gly Val Phe Ser Arg Tyr Ala Leu Ser
1 5 10

<210> 99
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<220>
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<400> 99

Gly Ile Ile Pro Met Leu Gly Phe Ala Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 100
<211> 6
<212> PRT
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<220>
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<400> 100

Ile Pro Met Leu Gly Phe
1 5

<210> 101
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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<400> 101

Leu Asp Phe Gly Ala Leu Asp Tyr
1 5

<210> 102
<211> 5
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<220>
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<400> 102

Ser Tyr Ala Met Asn
1 5

<210> 103
<211> 7
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<213> Artificial Sequence

<220>
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<400> 103

Gly Phe Thr Phe Ser Ser Tyr
1 5

<210> 104
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 104

Gly Phe Thr Phe Ser Ser Tyr Ala Met Asn
1 5 10

<210> 105
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 105

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

Gly

<210> 106
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<213> Artificial Sequence

<220>
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<400> 106

Ser Gly Gly Gly Arg Ser
1 5

<210> 107
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 107

Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp Ile
1 5 10 15

<210> 108
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 108

Ser Tyr Ala Met Asn
1 5

<210> 109
<211> 7
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<220>
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<400> 109

Gly Phe Thr Phe Ser Ser Tyr
1 5

<210> 110
<211> 10

<212> PRT
<213> Artificial Sequence

<220>
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<400> 110

Gly Phe Thr Phe Ser Ser Tyr Ala Met Asn
1 5 10

<210> 111
<211> 17
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<213> Artificial Sequence

<220>
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<400> 111

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

Gly

<210> 112
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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<400> 112

Ser Gly Gly Gly Arg Ser
1 5

<210> 113
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 113

Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp Ile

1 5 10 15

<210> 114
<211> 5
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<220>
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<400> 114

Asn Tyr Ala Met Asn
1 5

<210> 115
<211> 7
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<220>
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<400> 115

Gly Phe Thr Phe Asn Asn Tyr
1 5

<210> 116
<211> 10
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<220>
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<400> 116

Gly Phe Thr Phe Asn Asn Tyr Ala Met Asn
1 5 10

<210> 117
<211> 17
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<220>
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<400> 117

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

Gly

<210> 118
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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<400> 118

Ser Gly Ser Gly Gly Thr
1 5

<210> 119
<211> 7
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<220>
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<400> 119

Gly Ile Trp Asp Leu Arg Tyr
1 5

<210> 120
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<220>
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<400> 120

Ser Tyr Ala Ile Ser
1 5

<210> 121
<211> 7
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<220>
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<400> 121

Gly Gly Thr Phe Met Ser Tyr
1   5

<210> 122
<211> 10
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<213> Artificial Sequence

<220>
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<400> 122

Gly Gly Thr Phe Met Ser Tyr Ala Ile Ser
1   5   10

<210> 123
<211> 17
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<220>
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<400> 123

Gly Ile Ile Pro Ile Phe Gly Ile Ala Asn Tyr Ala Gln Lys Phe Gln
1   5   10   15

Gly

<210> 124
<211> 6
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<220>
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<400> 124

Ile Pro Ile Phe Gly Ile
1   5

<210> 125
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 125

Glu Thr Leu Ile Tyr Pro Ile Pro Phe Glu Leu
1 5 10

<210> 126
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 126

Ser Tyr Ala Val Ser
1 5

<210> 127
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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<400> 127

Gly Gly Thr Phe Ser Ser Tyr
1 5

<210> 128
<211> 10
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<213> Artificial Sequence

<220>
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<400> 128

Gly Gly Thr Phe Ser Ser Tyr Ala Val Ser
1 5 10

<210> 129
<211> 17
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<220>
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<400> 129

Gly Ile Ile Pro Ile Phe Gly Ile Ala Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 130
<211> 6
<212> PRT
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<220>
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<400> 130

Ile Pro Ile Phe Gly Ile
1 5

<210> 131
<211> 14
<212> PRT
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<400> 131

Glu Gly Ile Gly Gly Asp Leu Arg Tyr Asp Gly Tyr Asp Ala
1 5 10

<210> 132
<211> 5
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<220>
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<400> 132

Asn Tyr Val Met Asn
1 5

<210> 133
<211> 7
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<213> Artificial Sequence

<220>
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<400> 133

Gly Phe Thr Phe Ser Asn Tyr
1 5

<210> 134
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 134

Gly Phe Thr Phe Ser Asn Tyr Val Met Asn
1 5 10

<210> 135
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 135

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

Gly

<210> 136
<211> 6
<212> PRT

<213> Artificial Sequence

<220>
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<400> 136

Ser Gly Ser Gly Ala Thr
1   5

<210> 137
<211> 7
<212> PRT
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<220>
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<400> 137

Gly Leu Trp Ala Gly Gly Ile
1   5

<210> 138
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 138

Ser Tyr Ala Met Ser
1   5

<210> 139
<211> 7
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<220>
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<400> 139

Gly Phe Thr Phe Ser Ser Tyr
1   5

<210> 140
<211> 10

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 140

Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser
1 5 10

<210> 141
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 141

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

Gly

<210> 142
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 142

Gly Gly Ser Gly Gly Ser
1 5

<210> 143
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 143

Asp Tyr Tyr Ala Phe Ser Asp Pro Ala Tyr Gly Gly Met Asp Val

1 5 10 15

<210> 144
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 144

Arg Ala Ser His Ser Val Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 145
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 145

Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 146
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 146

Gln Gln Tyr Gly Ser Pro Pro Arg Thr
1 5

<210> 147
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 147

Arg Ala Ser Gln Tyr Val Ser Ala Ser Leu Leu Ala
1 5 10

<210> 148
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 148

Gly Ala Ser Thr Arg Ala Thr
1 5

<210> 149
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 149

Gln Gln Tyr Ala Arg Ser Ser Thr
1 5

<210> 150
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 150

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 151
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 151

Ala Ala Ser Ser Leu Gln Ser
1   5

<210> 152
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 152

Gln Gln Ser Tyr Ser Thr Pro Leu Thr
1   5

<210> 153
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 153

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1   5   10

<210> 154
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 154

Glu Val Ser Lys Arg Pro Ser
1   5

<210> 155
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 155

Ser Ser Tyr Ala Gly Ser Asn Thr Val Val
1 5 10

<210> 156
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 156

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Tyr
1 5 10

<210> 157
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 157

Arg Asn Asn Gln Arg Pro Ser
1 5

<210> 158
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 158

Ala Ala Trp Asp Asp Ser Leu Ser Gly Val Val
1 5 10

<210> 159
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 159

Ser Gly Ser Gly Ser Asn Ile Gly Ser Asn Tyr Val Tyr
1 5 10

<210> 160
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 160

Arg Asn Asn Gln Arg Pro Ser
1 5

<210> 161
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 161

Ala Ala Trp Asp Gly Ser Leu Ser Arg Pro Val
1 5 10

<210> 162
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 162

Arg Ala Ser Gln Ser Val Pro Asn Glu Gln Leu Ala
1 5 10

<210> 163
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 163

Asp Ala Ser Ser Arg Ala Thr
1 5

<210> 164
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 164

Gln Gln Tyr Gly Ser Pro Pro Leu Thr
1 5

<210> 165
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 165

Arg Ala Ser Gln Ser Val Ser Ser Ser Glu Leu Ala
1 5 10

<210> 166
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 166

Asp Ala Ser Ser Arg Ala Thr
1 5

<210> 167
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 167

Gln Gln Tyr Asp Ser Ser Pro Leu Thr
1   5

<210> 168
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 168

Gly Gly Asn Asn Ile Gly Ser Lys Ser Val His
1   5   10

<210> 169
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 169

Tyr Asp Ser Asp Arg Pro Ser
1   5

<210> 170
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 170

Gln Val Trp Asp Ser Ser Thr Ala Trp Val
1   5   10

<210> 171
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 171

Arg Ala Ser Gln Ser Val Pro Ser Ser Gln Leu Ala
1   5   10

<210> 172
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 172

Asp Ala Ser Ser Arg Ala Thr
1   5

<210> 173
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 173

Gln Gln Tyr Gly Ser Ser Pro Leu Thr
1   5

<210> 174
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 174

Arg Ala Ser Gln Ala Val Asp Ser Ser Asp Leu Ala
1   5   10

<210> 175
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 175

Asp Ala Tyr Thr Arg Pro Ser
1 5

<210> 176
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 176

Gln Gln Tyr Gly Ser Ser Pro Leu Thr
1 5

<210> 177
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 177

Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala
1 5 10

<210> 178
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 178

Asp Thr Phe Thr Arg Ala Thr
1 5

<210> 179
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 179

Gln Gln Tyr Gly Ser Ser Pro Pro Thr
1 5

<210> 180
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 180

Arg Ala Ser Gln Ser Val Ser Asn Thr Tyr Leu Ala
1 5 10

<210> 181
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 181

Asp Thr Ser Ser Arg Ala Thr
1 5

<210> 182
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 182

Gln Gln Tyr Gly Ser Ser Leu Thr
1 5

<210> 183

<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 183

Arg Ala Ser Gln Ser Ile Ser Thr Tyr Leu Asn
1 5 10

<210> 184
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 184

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 185
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 185

Gln Gln Ser Tyr Ser Ile Pro Leu Thr
1 5

<210> 186
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 186

Arg Ala Ser Gln Ile Val Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 187
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 187

Gly Ala Ser Ser Arg Ala Ser
1 5

<210> 188
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 188

Gln Gln Tyr Gly Gly Ser Pro Tyr Thr
1 5

<210> 189
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 189

Arg Ala Ser Gln Ser Val Ser His Ser Tyr Leu Ala
1 5 10

<210> 190
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 190

Gly Ala Ser Phe Arg Ala Ala
1 5

<210> 191
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 191

Gln Gln Tyr Gly Ser Asp Pro Tyr Thr
1 5

<210> 192
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 192

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 193
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 193

Asp Ala Ser Asp Leu Gln Arg
1 5

<210> 194
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 194

Gln Gln Ser Tyr Asn Thr Pro Trp Thr
1 5

<210> 195
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 195

Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Gln
1 5 10

<210> 196
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 196

Asp Asp Ser Asp Arg Pro Ser
1 5

<210> 197
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 197

Gln Val Trp Asp Ser Ser Ser Asp His Trp Val
1 5 10

<210> 198
<211> 255
<212> PRT
<213> Homo sapiens

<400> 198

Met Pro Ala Leu Ala Arg Asp Gly Gly Gln Leu Pro Leu Leu Val Val
1 5 10 15

```
Phe Ser Ala Met Ile Phe Gly Thr Ile Thr Asn Gln Asp Leu Pro Val
            20                  25                  30

Ile Lys Cys Val Leu Ile Asn His Lys Asn Asn Asp Ser Ser Val Gly
        35                  40                  45

Lys Ser Ser Ser Tyr Pro Met Val Ser Glu Ser Pro Glu Asp Leu Gly
    50                  55                  60

Cys Ala Leu Arg Pro Gln Ser Ser Gly Thr Val Tyr Glu Ala Ala Ala
65                  70                  75                  80

Val Glu Val Asp Val Ser Ala Ser Ile Thr Leu Gln Val Leu Val Asp
                85                  90                  95

Ala Pro Gly Asn Ile Ser Cys Leu Trp Val Phe Lys His Ser Ser Leu
            100                 105                 110

Asn Cys Gln Pro His Phe Asp Leu Gln Asn Arg Gly Val Val Ser Met
        115                 120                 125

Val Ile Leu Lys Met Thr Glu Thr Gln Ala Gly Glu Tyr Leu Leu Phe
    130                 135                 140

Ile Gln Ser Glu Ala Thr Asn Tyr Thr Ile Leu Phe Thr Val Ser Ile
145                 150                 155                 160

Arg Asn Thr Leu Leu Tyr Thr Leu Arg Arg Pro Tyr Phe Arg Lys Met
                165                 170                 175

Glu Asn Gln Asp Ala Leu Val Cys Ile Ser Glu Ser Val Pro Glu Pro
            180                 185                 190

Ile Val Glu Trp Val Leu Cys Asp Ser Gln Gly Glu Ser Cys Lys Glu
        195                 200                 205

Glu Ser Pro Ala Val Val Lys Lys Glu Glu Lys Val Leu His Glu Leu
    210                 215                 220

Phe Gly Thr Asp Ile Arg Cys Cys Ala Arg Asn Glu Leu Gly Arg Glu
225                 230                 235                 240
```

```
Cys Thr Arg Leu Phe Thr Ile Asp Leu Asn Gln Thr Pro Gln Thr
                245                 250                 255


<210>  199
<211>  135
<212>  PRT
<213>  Homo sapiens

<400>  199

Asn Gln Asp Leu Pro Val Ile Lys Cys Val Leu Ile Asn His Lys Asn
1               5                   10                  15


Asn Asp Ser Ser Val Gly Lys Ser Ser Ser Tyr Pro Met Val Ser Glu
            20                  25                  30


Ser Pro Glu Asp Leu Gly Cys Ala Leu Arg Pro Gln Ser Ser Gly Thr
        35                  40                  45


Val Tyr Glu Ala Ala Ala Val Glu Val Asp Val Ser Ala Ser Ile Thr
    50                  55                  60


Leu Gln Val Leu Val Asp Ala Pro Gly Asn Ile Ser Cys Leu Trp Val
65                  70                  75                  80


Phe Lys His Ser Ser Leu Asn Cys Gln Pro His Phe Asp Leu Gln Asn
                85                  90                  95


Arg Gly Val Val Ser Met Val Ile Leu Lys Met Thr Glu Thr Gln Ala
            100                 105                 110


Gly Glu Tyr Leu Leu Phe Ile Gln Ser Glu Ala Thr Asn Tyr Thr Ile
        115                 120                 125


Leu Phe Thr Val Ser Ile Arg
    130                 135


<210>  200
<211>  82
<212>  PRT
<213>  Homo sapiens

<400>  200
```

```
Asn Thr Leu Leu Tyr Leu Arg Arg Pro Tyr Phe Arg Lys Met Glu Asn
1               5                  10                  15

Gln Asp Ala Leu Val Cys Ile Ser Glu Ser Val Pro Glu Pro Ile Val
            20                  25                  30

Glu Trp Val Leu Cys Asp Ser Gln Gly Glu Ser Cys Lys Glu Glu Ser
        35                  40                  45

Pro Ala Val Val Lys Lys Glu Glu Lys Val Leu His Glu Leu Phe Gly
    50                  55                  60

Thr Asp Ile Arg Cys Cys Ala Arg Asn Glu Leu Gly Arg Glu Cys Thr
65                  70                  75                  80

Arg Leu
```

<210> 201
<211> 102
<212> PRT
<213> Homo sapiens

<400> 201

```
Phe Thr Ile Asp Leu Asn Gln Thr Pro Gln Thr Thr Leu Pro Gln Leu
1               5                  10                  15

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

Val Asn His Gly Phe Gly Leu Thr Trp Glu Leu Glu Asn Lys Ala Leu
        35                  40                  45

Glu Glu Gly Asn Tyr Phe Glu Met Ser Thr Tyr Ser Thr Asn Arg Thr
    50                  55                  60

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

Thr Gly Tyr Tyr Thr Cys Ser Ser Ser Lys His Pro Ser Gln Ser Ala
                85                  90                  95
```

Leu Val Thr Ile Val Glu
100

<210> 202
<211> 88
<212> PRT
<213> Homo sapiens

<400> 202

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

Gln Tyr Glu Glu Phe Cys Phe Ser Val Arg Phe Lys Ala Tyr Pro Gln
20 25 30

Ile Arg Cys Thr Trp Thr Phe Ser Arg Lys Ser Phe Pro Cys Glu Gln
35 40 45

Lys Gly Leu Asp Asn Gly Tyr Ser Ile Ser Lys Phe Cys Asn His Lys
50 55 60

His Gln Pro Gly Glu Tyr Ile Phe His Ala Glu Asn Asp Asp Ala Gln
65 70 75 80

Phe Thr Lys Met Phe Thr Leu Asn
85

<210> 203
<211> 107
<212> PRT
<213> Homo sapiens

<400> 203

Ile Arg Arg Lys Pro Gln Val Leu Ala Glu Ala Ser Ala Ser Gln Ala
1 5 10 15

Ser Cys Phe Ser Asp Gly Tyr Pro Leu Pro Ser Trp Thr Trp Lys Lys
20 25 30

Cys Ser Asp Lys Ser Pro Asn Cys Thr Glu Glu Ile Thr Glu Gly Val
35 40 45

Trp Asn Arg Lys Ala Asn Arg Lys Val Phe Gly Gln Trp Val Ser Ser

```
    50                  55                  60

Ser Thr Leu Asn Met Ser Glu Ala Ile Lys Gly Phe Leu Val Lys Cys
65                  70                  75                  80

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

Ser Pro Gly Pro Phe Pro Phe Ile Gln Asp Asn
            100                 105
```

<210> 204
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 204

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser His Ser
            20                  25                  30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
        35                  40                  45

Ile Tyr Gly Ala Ser Phe Arg Ala Ala Gly Ile Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65                  70                  75                  80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Glu Pro
                85                  90                  95

Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
```

<210> 205
<211> 123

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 205

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

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

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

Gly Gly Ile Ile Pro Ile Phe Gly Ile Ala Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Ile Glu Gly Ile Gly Gly Asp Leu Arg Tyr Glu Gly Tyr Asp Ala
100 105 110

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

<210> 206
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 206

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Thr Ser Ser

```
            20                  25                  30

Gln Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
        35                  40                  45

Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65                  70                  75                  80

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

Leu Ile Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
```

<210> 207
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 207

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

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

Tyr Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45

Gly Arg Ile Met Pro Ala Phe Gly Trp Thr Asn Tyr Ala Gln Lys Phe
    50                  55                  60

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

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

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

Val Thr Val Ser Ser
115

<210> 208
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 208

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ala Val Asp Ser Ser
20 25 30

Asp Leu Ala Trp Tyr Gln His Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Asp Ala Tyr Thr Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 209
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 209

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Val Phe Ser Arg Tyr
20 25 30

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

Gly Gly Ile Ile Pro Met Leu Gly Phe Ala Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Leu Asp Phe Gly Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 210
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 210

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
20 25 30

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
65                  70                  75                  80

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
```

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

<220>
<223> Synthetic Construct

<400> 211

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

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

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

Gly Arg Ile Ile Pro Ser Phe Gly Ala Ala Asn Tyr Ala Gln Lys Phe
    50                  55                  60

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

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

Ala Thr Asp Asp Gly Glu Gly Trp Thr Pro Pro Phe Gly Tyr Trp Gly
            100                 105                 110
```

Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 212
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 212

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
            20   25   30

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

Tyr Asp Thr Phe Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
    50   55   60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
65   70   75   80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Pro
                85   90   95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
            100   105

<210> 213
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 213

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

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

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

Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
            100                 105                 110

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  214
<211>  107
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  214

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
            20                  25                  30

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

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

```
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65                  70                  75                  80


Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Pro
                85                  90                  95


Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
            100                 105


<210>  215
<211>  124
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  215

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


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


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


Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
            100                 105                 110


Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 216
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 216

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Asp Val Ser Asp Leu
20 25 30

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

Tyr Asp Ala Tyr Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ala Ser Ser Pro Ile
85 90 95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 217
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 217

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

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

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

Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
            100                 105                 110

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 218
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 218

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Lys Val Ser Asp Leu
            20                  25                  30

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

Tyr Asp Ala Tyr Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65                  70                  75                  80
```

```
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Thr Gly Ser Pro Ile
                85                  90                  95


Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
            100                 105


<210>  219
<211>  124
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  219

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


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


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


Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
            100                 105                 110


Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  220
<211>  107
<212>  PRT
<213>  Artificial Sequence
```

<220>
<223> Synthetic Construct

<400> 220

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Leu Ser Val Ser Asp Leu
            20   25   30

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

Tyr Asp Ala Tyr Ser Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
    50   55   60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65   70   75   80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ser Ser Asn Pro Ile
                85   90   95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
            100   105

<210> 221
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 221

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

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

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

```
Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
            100                 105                 110

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 222
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 222

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

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

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

Tyr Asp Ala Tyr Ser Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65                  70                  75                  80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ala Ser Tyr Pro Ile
                85                  90                  95

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

100 105

<210> 223
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 223

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

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

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

Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
100 105 110

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 224
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 224

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


Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Asp Leu
            20                  25                  30


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


Tyr Asp Ala Phe Ser Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
    50                  55                  60


Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65                  70                  75                  80


Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Pro Pro Ile
                85                  90                  95


Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
            100                 105


<210>  225
<211>  124
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  225

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


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


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


Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
100 105 110

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 226
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 226

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Ser Val Ser Asp Leu
20 25 30

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

Tyr Asp Ala Tyr Ser Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ser Ala Ser Pro Ile
85 90 95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 227
<211> 124

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 227

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

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

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

Ser Ser Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
100 105 110

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 228
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 228

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn

```
            20                  25                  30

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

Tyr Asp Thr Phe Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65                  70                  75                  80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Pro
                85                  90                  95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
            100                 105


<210>  229
<211>  124
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  229

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

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

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

Ser Ala Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
100 105 110

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 230
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 230

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Leu
20 25 30

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

Tyr Asp Ala Tyr Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Thr Gly Ser Pro Ile
85 90 95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 231
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 231

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

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

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

Ser Ala Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
100 105 110

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 232
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 232

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Leu
20 25 30

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65                  70                  75                  80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Thr Gly Ser Pro Ile
                85                  90                  95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
            100                 105
```

<210> 233
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 233

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

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

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

Ser Ala Ile Ser Gly Gly Gly Arg 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 Arg Asp Leu Ser Pro Ser Asp Val Gly Trp Gly Tyr Gly Phe Asp
            100                 105                 110
```

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 234
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 234

Lys Gln Ser Tyr Asp Leu Phe Thr
1   5

<210> 235
<211> 165
<212> PRT
<213> Homo sapiens

<400> 235

Met Pro Ala Leu Ala Arg Asp Gly Gly Gln Leu Pro Leu Leu Val Val
1   5   10   15

Phe Ser Ala Met Ile Phe Gly Thr Ile Thr Asn Gln Asp Leu Pro Val
            20   25   30

Ile Lys Cys Val Leu Ile Asn His Lys Asn Asn Asp Ser Ser Val Gly
        35   40   45

Lys Ser Ser Ser Tyr Pro Met Val Ser Glu Ser Pro Glu Asp Leu Gly
    50   55   60

Cys Ala Leu Arg Pro Gln Ser Ser Gly Thr Val Tyr Glu Ala Ala Ala
65   70   75   80

Val Glu Val Asp Val Ser Ala Ser Ile Thr Leu Gln Val Leu Val Asp
                85   90   95

Ala Pro Gly Asn Ile Ser Cys Leu Trp Val Phe Lys His Ser Ser Leu
            100   105   110

Asn Cys Gln Pro His Phe Asp Leu Gln Asn Arg Gly Val Val Ser Met

```
        115                 120                 125

Val Ile Leu Lys Met Thr Glu Thr Gln Ala Gly Glu Tyr Leu Leu Phe
    130                 135                 140

Ile Gln Ser Glu Ala Thr Asn Tyr Thr Ile Leu Phe Thr Val Ser Ile
145                 150                 155                 160

Arg Asn Thr Leu Leu
                165
```

<210> 236
<211> 255
<212> PRT
<213> Homo sapiens

<400> 236

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

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

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

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

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

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

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
            100                 105                 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
        115                 120                 125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
```

```
    130                 135                 140

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

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

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
            180                 185                 190

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

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

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

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


<210>  237
<211>  255
<212>  PRT
<213>  Homo sapiens

<400>  237

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

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

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

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
```

65 70 75 80

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

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

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

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

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

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

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

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

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

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

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

<210> 238
<211> 255
<212> PRT
<213> Homo sapiens

<400> 238

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

```
1               5                   10                  15

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<210> 239
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 239

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

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

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

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

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

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

Thr Val Glu Arg Lys Cys Arg Val Arg Cys Pro Arg Cys Pro Ala Pro
100 105 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115 120 125

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

Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly

```
145                 150                 155                 160

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

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
            180                 185                 190

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

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

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

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

<210> 240
<211> 255
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 240
gcctccacca agggcccatc ggtcttcccc ctggcgccct gctccaggag cacctccgag 60

agcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgctctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtagtgacc gtgccctcca gcaacttcgg cacccagacc 240

tacacctgca acgta 255

<210> 241
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 241

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

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

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

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

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

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

Thr Val Glu Arg Lys Cys Glu Val Glu Cys Pro Glu Cys Pro Ala Pro
100 105 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115 120 125

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

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

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

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180 185 190

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

Ser Ser Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu

```
    210                 215                 220

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

Gln Val Ser Leu Thr Cys Glu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255
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<210> 242
<211> 255
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 242

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gcctccacca agggcccatc ggtcttcccc ctggcgccct gctccaggag cacctccgag       60

agcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg      120

tggaactcag gcgctctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      180

ggactctact ccctcagcag cgtagtgacc gtgccctcca gcaacttcgg cacccagacc      240

tacacctgca acgta                                                       255
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<210> 243
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 243

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

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

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

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

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

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

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

<210> 244
<211> 255
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 244
ggaactgtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctac 255

<210> 245
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 245

Glu Gly Ile Gly Gly Asp Leu Arg Tyr Glu Gly Tyr Asp Ala
1 5 10

<210> 246
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 246

Gly Gly Thr Phe Ser Ser Tyr Tyr Ile Thr
1 5 10

<210> 247
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 247

Ser Tyr Tyr Ile Thr
1 5

<210> 248
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 248

Arg Ile Met Pro Ala Phe Gly Trp Thr Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15

Gly

<210> 249
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 249

Met Pro Ala Phe Gly Trp
1 5

<210> 250
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 250

Asp Glu Phe Gly Ala Phe Asp Val
1 5

<210> 251
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 251

Gly Gly Ile Ile Pro Met Leu Gly Phe Ala Asn Tyr Ala Gln Lys Phe
1 5 10 15

Gln Gly

<210> 252
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 252

Ile Pro Ser Phe Gly Ala
1 5

<210> 253
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 253

Arg Ile Ile Pro Ser Phe Gly Ala Ala Asn Tyr Ala Gln Lys Phe Gln

1 5 10 15

Gly

<210> 254
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 254

Asp Asp Gly Glu Gly Trp Thr Pro Pro Phe Gly Tyr
1 5 10

<210> 255
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 255

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

Gly

<210> 256
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 256

Gln Gln Tyr Gly Ser Glu Pro Tyr Thr
1 5

<210> 257
<211> 12

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 257

Arg Ala Ser Gln Ser Val Thr Ser Ser Gln Leu Ala
1 5 10

<210> 258
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 258

Gln Gln Tyr Gly Ser Ser Leu Leu Ile Thr
1 5 10

<210> 259
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 259

Asp Ala Tyr Thr Arg Ala Thr
1 5

<210> 260
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 260

Gln Gln Tyr Gly Ser Pro Tyr Thr
1 5

<210> 261

<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 261

Arg Ala Ser Gln Asp Val Ser Asp Leu Leu Ala
1 5 10

<210> 262
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 262

Gln Gln Tyr Ala Ser Ser Pro Ile Thr
1 5

<210> 263
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 263

Arg Ala Ser Gln Lys Val Ser Asp Leu Leu Ala
1 5 10

<210> 264
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 264

Gln Gln Tyr Thr Gly Ser Pro Ile Thr
1 5

<210> 265
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 265

Arg Ala Ser Leu Ser Val Ser Asp Leu Leu Ala
1 5 10

<210> 266
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 266

Asp Ala Tyr Ser Arg Ala Thr
1 5

<210> 267
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 267

Gln Gln Tyr Ser Ser Asn Pro Ile Thr
1 5

<210> 268
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 268

Arg Ala Ser Gly Ser Val Ser Asp Leu Leu Ala
1 5 10

<210> 269
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 269

Gln Gln Tyr Ala Ser Tyr Pro Ile Thr
1   5

<210> 270
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 270

Arg Ala Ser Gln Ser Val Ser Asp Leu Leu Ala
1   5   10

<210> 271
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 271

Asp Ala Phe Ser Arg Ala Thr
1   5

<210> 272
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 272

Gln Gln Tyr Gly Thr Pro Pro Ile Thr
1   5

<210> 273
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 273

Arg Ala Ser Glu Ser Val Ser Asp Leu Leu Ala
1   5   10

<210> 274
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 274

Gln Gln Tyr Ser Ala Ser Pro Ile Thr
1   5

<210> 275
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 275

Arg Ala Ser Gln Ser Val Ser Ser Leu Leu Ala
1   5   10

<210> 276
<211> 135
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 276

Asn Gln Asp Leu Pro Val Ile Lys Cys Val Leu Ile Asn His Lys Asn

1 5 10 15

Asn Asp Ser Ser Val Gly Lys Ser Ser Ser Tyr Pro Met Val Ser Glu
20 25 30

Ser Pro Glu Asp Leu Gly Cys Ala Leu Arg Pro Gln Ser Ser Gly Thr
35 40 45

Val Tyr Glu Ala Ala Ala Val Glu Val Asp Val Ser Ala Ser Ile Thr
50 55 60

Leu Gln Val Leu Val Asp Ala Pro Gly Asn Ile Ser Cys Leu Trp Val
65 70 75 80

Phe Lys His Ser Ser Leu Asn Cys Gln Pro His Phe Asp Leu Gln Asn
85 90 95

Arg Gly Val Val Ser Met Val Ile Leu Lys Met Thr Glu Thr Gln Ala
100 105 110

Gly Glu Tyr Leu Leu Phe Ile Gln Ser Glu Ala Thr Asn Tyr Thr Ile
115 120 125

Leu Phe Thr Val Ser Ile Arg
130 135

<210> 277
<211> 82
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 277

Asn Thr Leu Leu Tyr Leu Arg Arg Pro Tyr Phe Arg Lys Met Glu Asn
1 5 10 15

Gln Asp Ala Leu Val Cys Ile Ser Glu Ser Val Pro Glu Pro Ile Val
20 25 30

Glu Trp Val Leu Cys Asp Ser Gln Gly Glu Ser Cys Lys Glu Glu Ser
35 40 45

Pro Ala Val Val Lys Lys Glu Glu Lys Val Leu His Glu Leu Phe Gly
    50   55   60

Thr Asp Ile Arg Cys Cys Ala Arg Asn Glu Leu Gly Arg Glu Cys Thr
65   70   75   80

Arg Leu

<210> 278
<211> 102
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 278

Phe Thr Ile Asp Leu Asn Gln Thr Pro Gln Thr Thr Leu Pro Gln Leu
1   5   10   15

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

Val Asn His Gly Phe Gly Leu Thr Trp Glu Leu Glu Asn Lys Ala Leu
        35   40   45

Glu Glu Gly Asn Tyr Phe Glu Met Ser Thr Tyr Ser Thr Asn Arg Thr
    50   55   60

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

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

Leu Val Thr Ile Val Glu
            100

<210> 279
<211> 88
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 279

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

Gln Tyr Glu Glu Phe Cys Phe Ser Val Arg Phe Lys Ala Tyr Pro Gln
20 25 30

Ile Arg Cys Thr Trp Thr Phe Ser Arg Lys Ser Phe Pro Cys Glu Gln
35 40 45

Lys Gly Leu Asp Asn Gly Tyr Ser Ile Ser Lys Phe Cys Asn His Lys
50 55 60

His Gln Pro Gly Glu Tyr Ile Phe His Ala Glu Asn Asp Asp Ala Gln
65 70 75 80

Phe Thr Lys Met Phe Thr Leu Asn
85

<210> 280
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 280

Ile Arg Arg Lys Pro Gln Val Leu Ala Glu Ala Ser Ala Ser Gln Ala
1 5 10 15

Ser Cys Phe Ser Asp Gly Tyr Pro Leu Pro Ser Trp Thr Trp Lys Lys
20 25 30

Cys Ser Asp Lys Ser Pro Asn Cys Thr Glu Glu Ile Thr Glu Gly Val
35 40 45

Trp Asn Arg Lys Ala Asn Arg Lys Val Phe Gly Gln Trp Val Ser Ser
50 55 60

```
Ser Thr Leu Asn Met Ser Glu Ala Ile Lys Gly Phe Leu Val Lys Cys
65                  70                  75                  80


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


Ser Pro Gly Pro Phe Pro Phe Ile Gln Asp Asn
            100                 105


<210>  281
<211>  112
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<400>  281

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


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


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


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


Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65                  70                  75                  80


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


Ser Tyr Asp Leu Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
            100                 105                 110


<210>  282
<211>  121
<212>  PRT
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 282

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 Phe Thr Phe Ser Asp Tyr
20 25 30

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

Ala Phe Ile Arg Asn Arg Ala Arg Gly Tyr Thr Ser Asp His Asn Pro
50 55 60

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

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

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

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 283
<211> 255
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 283
gacattgtga tgactcaatc ccccgactcc ctggctgtgt ccctcggcga acgcgcaact 60

atcaactgta aaagcagcca gtccctgttc aacgtccggt cgaggaagaa ctacctggcc 120

tggtatcagc agaaacctgg gcagccgccg aagcttctga tctcatgggc ctcaactcgg 180

gaaagcggag tgccagatag attctccgga tctggctccg gaaccgactt caccctgacg 240

atttcgagct tgcaa 255

<210> 284
<211> 255
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 284
gaagtccaac ttgtcgaatc gggaggaggc cttgtgcaac ccggtggatc cctgaggctg 60

tcatgcgcgg cctcgggctt caccttttcc gattactaca tgacctgggt cagacaggcc 120

cctggaaagg ggttggaatg ggtggcattc atccggaata gagcccgcgg atacacttcc 180

gaccacaacc ccagcgtgaa ggggcggttc accattagcc gcgacaacgc caagaactcc 240

ctctacctcc aaatg 255

<210> 285
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 285

Ser Asp Tyr Tyr Met Thr
1 5

<210> 286
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 286

Gly Phe Thr Phe Ser Asp Tyr
1 5

<210> 287
<211> 10
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 287

Gly Phe Thr Phe Ser Asp Tyr Tyr Met Thr
1 5 10

<210> 288
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 288

Arg Asn Arg Ala Arg Gly Tyr Thr
1 5

<210> 289
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 289

Phe Ile Arg Asn Arg Ala Arg Gly Tyr Thr Ser Asp His Asn Pro Ser
1 5 10 15

Val Lys Gly

<210> 290
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 290

Asp Arg Pro Ser Tyr Tyr Val Leu Asp Tyr
1 5 10

<210> 291
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 291

Lys Ser Ser Gln Ser Leu Phe Asn Val Arg Ser Arg Lys Asn Tyr Leu
1   5   10   15

Ala

<210> 292
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 292

Trp Ala Ser Thr Arg Glu Ser
1   5

<210> 293
<211> 114
<212> PRT
<213> Homo sapiens

<400> 293

Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile
1   5   10   15

Gln Ser Met His Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His
            20   25   30

Pro Ser Cys Lys Val Thr Ala Met Lys Cys Phe Leu Leu Glu Leu Gln
        35   40   45

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

```
Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn Val
65                  70                  75                  80


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


Lys Glu Phe Leu Gln Ser Phe Val His Ile Val Gln Met Phe Ile Asn
            100                 105                 110


Thr Ser
```