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<150> PCT/CN2018/087443
<151> 2018-05-18

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Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val
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Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser

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Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Phe Ile Val Ser
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Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val
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Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
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Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
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Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala
195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
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Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Ile
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<223> Synthetic

<400> 117

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

Glu Lys Val Thr Met Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Arg Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

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

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

Ile Ser Ser Val Gln Ala Asp Asp Leu Ala Val Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Phe Tyr Pro Phe Thr Phe Gly Ala Gly Thr Asn Leu Glu Leu

100 105 110

Lys

<210> 118
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 118

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

Glu Lys Val Thr Leu Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Leu Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly His
35 40 45

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

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

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

Val Tyr Ile Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Met
100 105 110

Arg

<210> 119
<211> 113
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic

<400> 119

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

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

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

Ile Ser Ser Val Gln Ala Ala Asp Leu Ala Val Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Tyr Phe Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 120
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 120

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

```
Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Gly
            20                  25                  30

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

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

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

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

Asp Leu Tyr Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Phe
            100                 105                 110

Lys
```

<210> 121
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 121

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

Glu Lys Val Ile Met Ser Cys Lys Ser Asn Gln Ser Leu Leu Asn Ser
            20                  25                  30

Gly Asn Gln Lys Lys Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
```

50 55 60

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

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

Gly Tyr Ser Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Met
100 105 110

Lys

<210> 122
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 122

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

Gly Lys Val Thr Val Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

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

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

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

```
Asn Tyr Tyr Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
            100                 105                 110


Lys



<210>  123
<211>  113
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  123

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


Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Phe Asn Ser
            20                  25                  30


Gly Asn Gln Arg Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45


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


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


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


Val Tyr Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
            100                 105                 110


Lys



<210>  124
```

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

<220>
<223> Synthetic

<400> 124

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Arg Pro Gly Gln
35 40 45

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

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

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

Asp Tyr Ile Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Met
100 105 110

Asn

<210> 125
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 125

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Thr Val Thr Ala Gly

```
1               5                   10                  15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
            20                  25                  30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45

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

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

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

Ser Tyr Ser Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
            100                 105                 110

Lys
```

<210> 126
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 126

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
            20                  25                  30

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

```
Pro Pro Arg Leu Leu Ile Tyr Trp Ser Ser Thr Arg Asp Ser Gly Val
    50                  55                  60

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

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

Asn Phe Ile Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
            100                 105                 110

Lys
```

<210> 127
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 127

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

Glu Lys Val Thr Met Ser Cys Arg Ser Ser Met Ser Leu Phe Asn Ser
            20                  25                  30

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

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

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

Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys His Asn
```

85 90 95

Asp Tyr Ile Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
100 105 110

Lys

<210> 128
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 128

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

Glu Lys Val Thr Met Asn Cys Arg Ser Ile Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

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

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

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

Ser Tyr Ser Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Met
100 105 110

Lys

<210> 129
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 129

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

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

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

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

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

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

Ala Tyr Ser Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Lys
100 105 110

Lys

<210> 130
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 130

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


Glu Lys Val Thr Met Thr Cys Lys Ser Ser Gln Ser Leu Phe Asn Ser
            20                  25                  30


Gly Asn Gln Arg Asn Tyr Leu Thr Trp Tyr Gln Arg Lys Pro Gly Gln
        35                  40                  45


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


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


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


Ala Tyr Tyr Phe Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Lys
            100                 105                 110


Lys



<210>  131
<211>  113
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  131

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


Glu Arg Val Ser Met Thr Cys Lys Ser Ser Gln Ser Leu Phe Asn Ser
            20                  25                  30


Gly Asn Gln Arg Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
```

35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ser Ser Thr Arg Glu Ser Gly Val
50 55 60

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

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

Asn Tyr Tyr Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 132
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 132

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

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

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

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

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

```
Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn
                85                  90                  95


Ala Tyr Tyr Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Arg
            100                 105                 110


Lys



<210>  133
<211>  113
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  133

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


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


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


Pro Pro Lys Leu Leu Leu Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
    50                  55                  60


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


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


Ala Tyr Phe Tyr Pro Cys Thr Phe Gly Gly Gly Thr Lys Leu Glu Met
            100                 105                 110


Lys
```

<210> 134
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 134

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

Glu Lys Val Thr Met Arg Cys Arg Ser Thr Gln Ser Leu Phe Asn Ser
            20   25   30

Gly Asn Gln Arg Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35   40   45

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

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

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

Ala Tyr Tyr Tyr Pro Leu Thr Phe Gly Val Gly Thr Lys Leu Glu Arg
            100   105   110

Lys

<210> 135
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 135

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

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

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

Pro Pro Lys Leu Leu Leu Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

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

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

Ala Tyr Phe Tyr Pro Cys Thr Phe Gly Gly Gly Thr Lys Leu Glu Met
100 105 110

Lys

<210> 136
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 136

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Phe Asn Ser
20 25 30

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


Pro Pro Lys Leu Leu Val Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
    50                  55                  60


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


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


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


Lys
```

<210> 137
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 137

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


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


Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45


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


Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Tyr Phe Thr Phe Thr
```

65 70 75 80

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

Ala Tyr Phe Tyr Pro Phe Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
100 105 110

Lys

<210> 138
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 138

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

Glu Lys Val Thr Met Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

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

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

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

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

Ala Tyr Phe Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 139
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 139

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

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

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

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

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

Lys

<210> 140
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 140

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Phe Asn Ser
            20   25   30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35   40   45

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

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

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

Asn Tyr Ile Tyr Pro Leu Ala Phe Gly Thr Gly Thr Lys Leu Glu Leu
            100   105   110

Lys

<210> 141
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 141

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser

20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Arg Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Met Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

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

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

Gly Tyr Tyr Phe Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Thr
100 105 110

Lys

<210> 142
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 142

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

Glu Lys Val Thr Met Arg Cys Arg Ser Ser Gln Ser Leu Phe Asn Ser
20 25 30

Gly Asn Gln Arg Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

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

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


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


Asn Tyr Ile Tyr Pro Leu Ala Phe Gly Ala Gly Thr Lys Leu Glu Leu
            100                 105                 110


Lys
```

<210> 143
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 143

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


Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Phe Asn Ser
            20                  25                  30


Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45


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


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


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


Asn Tyr Ile Tyr Pro Leu Ala Phe Gly Ala Gly Thr Lys Leu Glu Leu
```

100 105 110

Lys

<210> 144
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 144

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

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

Gly Asn Gln Arg Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

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

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

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

Ala Tyr Tyr Tyr Pro Leu Thr Phe Gly Pro Gly Thr Lys Leu Glu Arg
100 105 110

Lys

<210> 145
<211> 118
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic

<400> 145

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


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


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


Gly Glu Ile Asn Pro Gly Asn Gly Gly Ser Asn Tyr Asn Glu Lys Phe
    50                  55                  60


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


Met Gln Leu Ser Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys
                85                  90                  95


Ala Arg Ile Tyr Tyr Gly Asn Ser Phe Ala Tyr Trp Gly Gln Gly Thr
            100                 105                 110


Leu Val Thr Val Ser Ala
        115
```

<210> 146
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 146

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

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


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


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


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


Lys Val Asn Ser Leu Gln Ile Asp Asp Thr Ala Thr Tyr Tyr Cys Ala
                85                  90                  95


Lys Gln Gly Leu Tyr Gly His Ala Met Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110


Ser Val Ile Val Ser Ser
        115


<210>  147
<211>  118
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  147

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


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


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


Ala Phe Ile Ser Gly Gly Ser Asn Thr Ile His Tyr Leu Asp Thr Val
```

50 55 60

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

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

Thr Arg Leu Ala Leu Gly Asn Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Ile Val Ser Ser
115

<210> 148
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 148

Glu Val Gln His Val Glu Thr Gly Gly Gly Leu Val Gln Pro Lys Gly
1 5 10 15

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

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

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

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

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

Tyr Cys Val Ser Gly Ala Tyr Tyr Gly Asn Ser Lys Ala Phe Asp Tyr
100 105 110

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

<210> 149
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 149

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

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

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

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

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

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

Ala Arg Glu Gly Tyr Gly Arg Gly Asn Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 150

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

<220>
<223> Synthetic

<400> 150

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

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

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

Ala Thr Phe Ser Tyr Gly Asp Ser His Asn Tyr Tyr Ser Asp Ser Val
50 55 60

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

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

Ala Arg Phe Gly Arg Gly Asn Thr Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Thr Val Ser Leu
115

<210> 151
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 151

Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Arg Lys Pro Gly Glu

1 5 10 15

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

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

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

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

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

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

Thr Leu Thr Val Ser Ser
115

<210> 152
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 152

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

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

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

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


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


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


Ala Arg Leu Val Arg Gly Asn Ser Phe Asp Phe Trp Gly Gln Gly Ile
            100                 105                 110


Thr Leu Thr Val Ser Ser
        115


<210>  153
<211>  120
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  153

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


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


Pro Ile Glu Trp Met Lys Gln Asn His Gly Lys Ser Leu Glu Trp Ile
        35                  40                  45


Gly Asn Phe His Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Lys Phe
    50                  55                  60


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


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

85 90 95

Ala Arg Arg Ala Tyr Gly Tyr Pro Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 154
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 154

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

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

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

Gly Val Ile Asn Pro Gly Arg Ser Gly Thr Asn Tyr Asn Glu Lys Phe
50 55 60

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

Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ala Arg Thr Arg Tyr Gly Gly Asn Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser
115

<210> 155
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 155

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

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

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

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

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

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

Arg Ser Leu Tyr Gly Asn Ser Leu Asp Ser Trp Gly Pro Gly Thr Thr
100 105 110

Leu Thr Val Ser Ser
115

<210> 156
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 156

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


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


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


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


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


Lys Met His Ser Leu Gln Thr Asp Asp Thr Ala Met Tyr Tyr Cys Ala
                85                  90                  95


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


Leu Thr Val Ser Ser
        115


<210>  157
<211>  117
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  157

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


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


Gly Val Asn Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
```

35 40 45

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

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

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

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

Val Thr Val Ser Ser
115

<210> 158
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 158

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

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

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

Gly Val Ile Trp Ala Gly Gly Arg Thr Asn Tyr Asn Ser Ala Leu Met
50 55 60

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

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


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


Ser Val Thr Val Ser Ser
        115


<210>  159
<211>  119
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  159

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


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


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


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


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


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


Ala Arg Ser Ser Tyr Tyr Gly Asn Ser Met Asp Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Ser Val Thr Val Ser Ser
```

115

<210> 160
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 160

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

Ser Leu Ser Ile Thr Cys Thr Ile Ser Gly Phe Ser Leu Asn Thr Tyr
20 25 30

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

Val Val Met Leu Ser Asp Gly Asn Thr Val Tyr Asn Ser Ser Leu Lys
50 55 60

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

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

Arg His Lys Ala Tyr Gly Asn Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Thr Val Ser Ser
115

<210> 161
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 161

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

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

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

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

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

Lys Leu Asn Ser Val His Thr Asp Gly Thr Ala Thr Tyr Tyr Cys Ala
85 90 95

Lys Val Gly Arg Gly Asn Ala Met Asp His Trp Gly Gln Gly Ile Ser
100 105 110

Val Ile Val Ser Ser
115

<210> 162
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 162

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

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

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


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


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


Lys Leu Asn Ser Val His Thr Asp Gly Thr Ala Thr Tyr Tyr Cys Ala
                85                  90                  95


Lys Val Gly Arg Gly Asn Ala Met Asp His Trp Gly Gln Gly Ile Ser
            100                 105                 110


Val Ile Val Ser Ser
        115


<210>  163
<211>  118
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  163

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


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


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


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


Lys Gly Lys Ala Thr Leu Thr Ser Asp Lys Ser Ser Ser Thr Ala Phe
```

65 70 75 80

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

Ala Arg Leu Asp Tyr Gly Asn Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Thr Val Ser Ser
115

<210> 164
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 164

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

Ser Leu Ser Ile Thr Cys Thr Val Ser Asp Phe Ser Leu Thr Lys Tyr
20 25 30

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

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

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

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

Arg Asn Gly Tyr Tyr Gly Asn Ala Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Thr Val Ser Ser
        115

<210> 165
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 165

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

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

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

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

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

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

Gly Arg Leu Asp Tyr Gly Asn Ala Met Asp Tyr Trp Gly Gln Gly Thr
            100   105   110

Ser Val Thr Val Ser Ser
        115

<210> 166
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 166

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

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

Tyr Phe Trp Thr Trp Phe Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
        35   40   45

Met Gly Tyr Ile Ser Tyr Asp Gly Ser Asn Asn Tyr Asn Pro Ser Leu
    50   55   60

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

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

Ala Ser Phe Arg Phe Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
            100   105   110

Val Ser Ala
        115

<210> 167
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 167

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

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Asn Tyr

20 25 30

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

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

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

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

Arg His Gly Tyr Gly Lys Gly Asn Ala Met Asp Asn Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser
115

<210> 168
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 168

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

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

Leu Thr His Trp Val Arg Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Glu Ile Asn Pro Thr Asn Gly Arg Thr Tyr Tyr Asn Glu Lys Phe
50 55 60

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


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


Ala Arg Ile Tyr Tyr Gly Asn Ser Met Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110


Leu Val Thr Val Ser Ala
        115


<210>  169
<211>  120
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  169

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


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


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


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


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


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


Ala Arg Glu Gly Tyr Gly Arg Gly Asn Ala Met Asp Tyr Trp Gly Gln
```

100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 170
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 170

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

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

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

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

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

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

Arg Ser Leu Tyr Gly Asn Ser Phe Asp His Trp Gly Gln Gly Thr Thr
100 105 110

Leu Thr Val Ser Ser
115

<210> 171
<211> 118
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic

<400> 171

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

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

Ile Ile Gln Trp Met Lys Gln Lys Pro Gly Leu Gly Leu Glu Trp Ile
35 40 45

Gly Phe Ile Asn Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Gln Phe
50 55 60

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

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

Ala Arg Ala Tyr Phe Gly Asn Ser Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ala
115

<210> 172
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 172

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

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

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

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

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

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

Arg Ser Leu Tyr Gly Asn Ser Phe Asp His Trp Gly Gln Gly Thr Thr
            100   105   110

Leu Thr Val Ser Ser
        115

<210> 173
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 173

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

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

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

Gly Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asp Ser Ala Leu Met

50 55 60

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

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

Arg Ser Leu Tyr Gly Asn Ser Phe Asp His Trp Gly Gln Gly Thr Thr
100 105 110

Leu Thr Val Ser Ser
115

<210> 174
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 174

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

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

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

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

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

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

```
Ala Arg Leu Asp Tyr Gly Asn Ala Met Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110


Ser Val Thr Val Ser Ser
        115


<210>  175
<211>  119
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  175

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 Thr Phe
            20                  25                  30


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


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


Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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 Ser Ser Tyr Tyr Gly Asn Ser Met Asp Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210>  176
```

<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 176

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 Thr Phe
20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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 Ser Ser Tyr Tyr Gly Asn Ser Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 177
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 177

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 Thr Phe
20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala 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 Ser Ser Tyr Tyr Gly Asn Ser Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 178
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 178

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 Arg Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Arg Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

```
Pro Pro Lys Leu Leu Ile Tyr 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 Gln Asn
                85                  90                  95


Ala Tyr Ser Tyr Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
            100                 105                 110


Lys



<210>  179
<211>  113
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  179

Asp Thr 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 Arg Ser Ser Gln Ser Leu Leu Asn Ser
            20                  25                  30


Gly Asn Arg Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45


Pro Pro Lys Leu Leu Ile Tyr 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 Val Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Asn
```

85 90 95

Ala Tyr Ser Tyr Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 180
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 180

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

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

Gly Asn Arg Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr 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 Val Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Asn
85 90 95

Ala Tyr Ser Tyr Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 181
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 181

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

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

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

Gly Asn Phe His Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Lys Phe
50 55 60

Lys Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala 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 Arg Ala Tyr Gly Tyr Pro Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 182
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 182

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


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


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


Gly Asn Phe His Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Lys Phe
    50                  55                  60


Lys Gly Arg Val Thr Ile Thr Val Asp Thr Ser Ala 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 Arg Ala Tyr Gly Tyr Pro Tyr Ala Met Asp Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  183
<211>  120
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  183

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


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


Pro Ile Glu Trp Met Lys Gln Ala Pro Gly Gln Arg Leu Glu Trp Met
```

35 40 45

Gly Asn Phe His Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Lys Phe
50 55 60

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

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

Ala Arg Arg Ala Tyr Gly Tyr Pro Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 184
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 184

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

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

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

Gly Asn Phe His Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Lys Phe
50 55 60

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

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


Ala Arg Arg Ala Tyr Gly Tyr Pro Tyr Ala Met Asp Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  185
<211>  113
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  185

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 Leu Asn Ser
            20                  25                  30


Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45


Pro Pro Lys Leu Leu Ile Tyr Arg Ala Ser Ser 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 Gln Asn
                85                  90                  95


Asp Tyr Ile Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
            100                 105                 110


Lys
```

<210> 186
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 186

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 Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Arg Ala Ser Ser 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 Gln Asn
85 90 95

Asp Tyr Ile Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 187
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 187

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

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

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Arg Ala Ser Ser 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 Val Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ile Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 188
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 188

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

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

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


Gly Phe Ile Asn Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Gln Phe
    50                  55                  60


Lys Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala 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 Ala Tyr Phe Gly Asn Ser Phe Ala Tyr Trp Gly Gln Gly Thr
            100                 105                 110


Leu Val Thr Val Ser Ser
        115


<210>  189
<211>  118
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  189

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


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


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


Gly Phe Ile Asn Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Gln Phe
    50                  55                  60


Lys Gly Arg Val Thr Ile Thr Ser Asp Thr Ser Ala Ser Ala 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 Ala Tyr Phe Gly Asn Ser Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 190
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 190

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

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

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

Gly Phe Ile Asn Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Gln Phe
50 55 60

Lys Gly Arg Ala Thr Ile Thr Ser Asp Thr Ser Ala Ser Ala 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 Ala Tyr Phe Gly Asn Ser Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
        115

<210> 191
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 191

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

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

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

Gly Phe Ile Asn Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Gln Phe
    50   55   60

Lys Gly Arg Ala Thr Leu Thr Ser Asp Thr Ser Ala Ser Ala 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 Ala Tyr Phe Gly Asn Ser Phe Ala Tyr Trp Gly Gln Gly Thr
            100   105   110

Leu Val Thr Val Ser Ser
        115

<210> 192
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 192

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 Leu Asn Ser
            20   25   30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35   40   45

Pro Pro Lys Leu Leu Ile Tyr 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 Gln Asn
                85   90   95

Gly Tyr Tyr Phe Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
            100   105   110

Lys

<210> 193
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 193

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 Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser

20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Met Tyr 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 Gln Asn
85 90 95

Gly Tyr Tyr Phe Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 194
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 194

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 Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Met Tyr 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 Gly Gln Ala Glu Asp Val Ala Val Tyr Phe Cys Gln Asn
                85                  90                  95


Gly Tyr Tyr Phe Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
            100                 105                 110


Lys
```

<210> 195
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 195

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


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


Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45


Pro Pro Lys Leu Leu Met Tyr 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 Gly Gln Ala Glu Asp Val Ala Val Tyr Phe Cys Gln Asn
                85                  90                  95


Gly Tyr Tyr Phe Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
```

100 105 110

Lys

<210> 196
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 196

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 Thr Phe
20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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 Ser Ser Tyr Tyr Gly Asn Ser Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 197
<211> 119
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic

<400> 197

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 Thr Phe
20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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 Ser Ser Tyr Tyr Gly Asn Ser Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 198
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 198

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 Thr Phe
            20                  25                  30


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


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


Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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 Ser Ser Tyr Tyr Gly Gln Ser Met Asp Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210>  199
<211>  119
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  199

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 Thr Phe
            20                  25                  30


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


Ser Tyr Ile Thr Ser Gly Glu Ser Pro Ile Tyr Phe Thr Asp Thr Val
```

50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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 Ser Ser Tyr Tyr Gly Glu Ser Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 200
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 200

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 Thr Phe
20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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 Ser Ser Tyr Tyr Gly Asn Ala Met Asp Tyr Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210>  201
<211>  113
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Synthetic

<400>  201

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 Arg Ser Ser Gln Ser Leu Leu Glu Ser
            20                  25                  30


Gly Asn Arg Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45


Pro Pro Lys Leu Leu Ile Tyr 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 Gln Asn
                85                  90                  95


Ala Tyr Ser Tyr Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
            100                 105                 110


Lys



<210>  202
```

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

<220>
<223> Synthetic

<400> 202

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 Arg Ser Ser Gln Ser Leu Leu Asn Ala
20 25 30

Gly Asn Arg Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr 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 Gln Asn
85 90 95

Ala Tyr Ser Tyr Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 203
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 203

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 Leu Asn Ala
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Arg Ala Ser Ser 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 Gln Asn
85 90 95

Asp Tyr Ile Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 204
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 204

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 Leu Glu Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Arg Ala Ser Ser 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 Gln Asn
                85   90   95

Asp Tyr Ile Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
            100   105   110

Lys

<210> 205
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 205

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

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

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

Gly Phe Ile Asn Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Gln Phe
    50   55   60

Lys Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala 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 Ala Tyr Phe Gly Asn Ala Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 206
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 206

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 Leu Asn Ala
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr 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 Gln Asn
85 90 95

Ala Tyr Tyr Phe Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 207
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 207

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 Leu Glu Ser
            20   25   30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
        35   40   45

Pro Pro Lys Leu Leu Ile Tyr 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 Gln Glu
                85   90   95

Gly Tyr Tyr Phe Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
            100   105   110

Lys

<210> 208
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 208

Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Asn Gln Arg Asn Tyr Leu
1 5 10 15

Thr

<210> 209
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 209

Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Asn Leu Lys Asn Tyr Leu
1 5 10 15

Thr

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

<220>
<223> Synthetic

<400> 210

Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu
1 5 10 15

Thr

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

<220>
<223> Synthetic

<400> 211

Lys Ser Ser Gln Ser Leu Leu Asn Gly Gly Asn Gln Lys Asn Tyr Leu
1 5 10 15

Ala

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

<220>
<223> Synthetic

<400> 212

Lys Ser Asn Gln Ser Leu Leu Asn Ser Gly Asn Gln Lys Lys Tyr Leu
1 5 10 15

Thr

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

<220>
<223> Synthetic

<400> 213

Lys Ser Ser Gln Ser Leu Phe Asn Ser Gly Asn Gln Arg Asn Tyr Leu
1 5 10 15

Thr

<210> 214
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 214

Arg Ser Ser Met Ser Leu Phe Asn Ser Gly Asn Gln Lys Ser Tyr Leu
1   5   10   15

Ser

<210> 215
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 215

Arg Ser Ile Gln Ser Leu Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu
1   5   10   15

Ser

<210> 216
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 216

Arg Ser Ser Gln Ser Leu Leu Asn Ser Gly Asn Arg Lys Asn Tyr Leu
1   5   10   15

Thr

<210> 217
<211> 17
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic

<400> 217

Arg Ser Thr Gln Ser Leu Phe Asn Ser Gly Asn Gln Lys Asn Tyr Leu
1 5 10 15

Thr

<210> 218
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 218

Lys Pro Ser Gln Ser Leu Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 219
<211> 17
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<400> 219

Arg Ser Thr Gln Ser Leu Phe Asn Ser Gly Asn Gln Arg Asn Tyr Leu
1 5 10 15

Thr

<210> 220

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

<220>
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<400> 220

Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 221
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<220>
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<400> 221

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

Thr

<210> 222
<211> 17
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<400> 222

Arg Ser Ser Gln Ser Leu Leu Asn Gly Gly Asn Gln Lys Asn Tyr Leu
1 5 10 15

Thr

<210> 223
<211> 17
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<400> 223

Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Asn Gln Arg Asn Tyr Leu
1   5   10   15

Ser

<210> 224
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<400> 224

Lys Ser Ser Gln Ser Leu Phe Asn Ser Gly Asn Gln Lys Asn Tyr Leu
1   5   10   15

Thr

<210> 225
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<220>
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<400> 225

Arg Ser Ser Gln Ser Leu Phe Asn Ser Gly Asn Gln Arg Asn Tyr Leu
1   5   10   15

Thr

<210> 226
<211> 17
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<400> 226

Lys Ser Thr Gln Ser Leu Leu Asn Ser Gly Asn Gln Arg Asn Tyr Leu
1   5   10   15

Thr

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<400> 227

Trp Ala Ser Thr Arg Glu Ser
1   5

<210> 228
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<400> 228

Gly Ala Ser Thr Arg Glu Ser
1   5

<210> 229
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<400> 229

Arg Ala Ser Ser Arg Glu Ser
1 5

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<400> 230

Trp Ala Phe Thr Arg Glu Ser
1 5

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<400> 231

Trp Ser Ser Thr Arg Asp Ser
1 5

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<400> 232

Trp Ala Ser Thr Arg Asp Ser
1 5

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<400> 233

Trp Ser Ser Thr Arg Glu Ser
1   5

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<400> 234

Asn Tyr Leu Leu Glu
1   5

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<400> 235

Ser Tyr Gly Val Ser
1   5

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Ser Phe Gly Met Asn
1   5

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Thr Asn Ala Met Asn
1   5

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<400> 238

Thr Tyr Ser Ile His
1   5

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<400> 239

Asn Tyr Gly Met Ser
1   5

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<400> 240

Asn Tyr Gly Met Asn
1   5

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<400> 241

Lys Tyr Gly Met Asn
1   5

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<400> 242

Thr Tyr Pro Ile Glu
1   5

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Asn Tyr Leu Ile Glu
1   5

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<400> 244

Ser Tyr Gly Val His
1   5

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Ser Phe Gly Val His
1   5

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Thr Phe Gly Met His
1   5

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<400> 247

Thr Tyr Gly Val His

1 5

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Asn Tyr Gly Val Ser
1 5

<210> 249
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<400> 249

Gly Phe Leu Met His
1 5

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<400> 250

Lys Tyr Gly Val His
1 5

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<400> 251

Ser Gly Tyr Phe Trp
1   5

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Asn Phe Leu Thr His
1   5

<210> 253
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<400> 253

Gly Tyr Ile Ile Gln
1   5

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<400> 254

Ser Tyr Gly Ala His
1   5

<210> 255
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<220>
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<400> 255

Glu Ile Asn Pro Gly Asn Gly Gly Ser Asn Tyr Asn Glu Lys Phe Lys
1 5 10 15

Gly

<210> 256
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 256

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

<210> 257
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 257

Phe Ile Ser Gly Gly Ser Asn Thr Ile His Tyr Leu Asp Thr Val Lys
1 5 10 15

Gly

<210> 258
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 258

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

Val Lys Asp

<210> 259
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 259

Tyr Ile Asn Pro Ser Thr Ile Tyr Thr Asn Tyr Asn Gln Lys Phe Lys
1   5   10   15

Tyr

<210> 260
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 260

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

Gly

<210> 261
<211> 17
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic

<400> 261

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

Gly

<210> 262
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 262

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

Gly

<210> 263
<211> 17
<212> PRT
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<220>
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<400> 263

Asn Phe His Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Lys Phe Lys
1 5 10 15

Gly

<210> 264

<211> 17
<212> PRT
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<220>
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<400> 264

Val Ile Asn Pro Gly Arg Ser Gly Thr Asn Tyr Asn Glu Lys Phe Lys
1 5 10 15

Gly

<210> 265
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 265

Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asp Ser Ala Leu Met Ser
1 5 10 15

<210> 266
<211> 16
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<220>
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<400> 266

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

<210> 267
<211> 16
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<220>
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<400> 267

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

<210> 268
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 268

Tyr Ile Thr Ser Gly Asn Ser Pro Ile Tyr Phe Thr Asp Thr Val Lys
1 5 10 15

Gly

<210> 269
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 269

Val Met Leu Ser Asp Gly Asn Thr Val Tyr Asn Ser Ser Leu Lys Ser
1 5 10 15

<210> 270
<211> 16
<212> PRT
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<220>
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<400> 270

Val Ile Trp Gly Asp Gly Asn Thr Asn Tyr Gln Ser Ala Leu Arg Ser
1 5 10 15

<210> 271
<211> 16
<212> PRT
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<220>
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<400> 271

Val Ile Arg Gly Asp Gly Asn Thr Asn Tyr Gln Ser Ala Leu Arg Ser
1   5   10   15

<210> 272
<211> 17
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<220>
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<400> 272

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

Gly

<210> 273
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 273

Val Ile Trp Thr Gly Gly Asn Thr Asp Tyr Asn Pro Ala Leu Ile Pro
1   5   10   15

<210> 274
<211> 16
<212> PRT
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<220>
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<400> 274

Tyr Ile Ser Tyr Asp Gly Ser Asn Asn Tyr Asn Pro Ser Leu Lys Asn
1   5   10   15

<210> 275
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 275

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

<210> 276
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 276

Glu Ile Asn Pro Thr Asn Gly Arg Thr Tyr Tyr Asn Glu Lys Phe Lys
1   5   10   15

Arg

<210> 277
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 277

Tyr Ile Asn Pro Asn Thr Ile Tyr Thr Asn Tyr Asn Gln Lys Phe Lys

1 5 10 15

Tyr

<210> 278
<211> 17
<212> PRT
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<220>
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<400> 278

Phe Ile Asn Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Gln Phe Lys
1 5 10 15

Gly

<210> 279
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 279

Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asp Ser Thr Leu Met Ser
1 5 10 15

<210> 280
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 280

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

Gly

<210> 281
<211> 9
<212> PRT
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<220>
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<400> 281

Ile Tyr Tyr Gly Asn Ser Phe Ala Tyr
1 5

<210> 282
<211> 10
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<220>
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<400> 282

Gln Gly Leu Tyr Gly His Ala Met Asp Tyr
1 5 10

<210> 283
<211> 9
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<220>
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<400> 283

Leu Ala Leu Gly Asn Ala Met Asp Tyr
1 5

<210> 284
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<400> 284

Gly Ala Tyr Tyr Gly Asn Ser Lys Ala Phe Asp Tyr
1   5   10

<210> 285
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<400> 285

Glu Gly Tyr Gly Arg Gly Asn Ala Met Asp Tyr
1   5   10

<210> 286
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<400> 286

Phe Gly Arg Gly Asn Thr Met Asp Tyr
1   5

<210> 287
<211> 9
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<400> 287

Leu Thr Arg Gly Asn Ser Phe Asp Tyr
1   5

<210> 288

<211> 9
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<400> 288

Leu Val Arg Gly Asn Ser Phe Asp Phe
1 5

<210> 289
<211> 11
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<400> 289

Arg Ala Tyr Gly Tyr Pro Tyr Ala Met Asp Tyr
1 5 10

<210> 290
<211> 10
<212> PRT
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<220>
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<400> 290

Thr Arg Tyr Gly Gly Asn Ala Met Asp Tyr
1 5 10

<210> 291
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<212> PRT
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<220>
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<400> 291

Ser Leu Tyr Gly Asn Ser Leu Asp Ser

1 5

<210> 292
<211> 9
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<400> 292

Ser Leu Tyr Gly Asn Ser Phe Asp Tyr
1 5

<210> 293
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<400> 293

Asp Arg Tyr Gly Gly Asn Ser Leu Asp Tyr
1 5 10

<210> 294
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<400> 294

Ser Ser Tyr Tyr Gly Asn Ser Met Asp Tyr
1 5 10

<210> 295
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<400> 295

His Lys Ala Tyr Gly Asn Ala Met Asp Tyr
1 5 10

<210> 296
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<400> 296

Val Gly Arg Gly Asn Ala Met Asp His
1 5

<210> 297
<211> 9
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<400> 297

Leu Asp Tyr Gly Asn Ala Met Asp Tyr
1 5

<210> 298
<211> 10
<212> PRT
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<400> 298

Asn Gly Tyr Tyr Gly Asn Ala Met Asp Tyr
1 5 10

<210> 299
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<212> PRT

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<220>
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<400> 299

Phe Arg Phe Phe Ala Tyr
1   5

<210> 300
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 300

His Gly Tyr Gly Lys Gly Asn Ala Met Asp Asn
1   5   10

<210> 301
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 301

Ile Tyr Tyr Gly Asn Ser Met Asp Tyr
1   5

<210> 302
<211> 9
<212> PRT
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<220>
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<400> 302

Ser Leu Tyr Gly Asn Ser Phe Asp His
1   5

<210> 303
<211> 9
<212> PRT
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<220>
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<400> 303

Ala Tyr Phe Gly Asn Ser Phe Ala Tyr
1 5

<210> 304
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 304

Lys Ser Ser Gln Ser Leu Leu Asn Ala Gly Asn Gln Lys Asn Tyr Leu
1 5 10 15

Thr

<210> 305
<211> 17
<212> PRT
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<220>
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<400> 305

Lys Ser Ser Gln Ser Leu Leu Glu Ser Gly Asn Gln Lys Asn Tyr Leu
1 5 10 15

Thr

<210> 306

<211> 17
<212> PRT
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<400> 306

Phe Ile Asn Pro Tyr Asn Asp Asp Thr Lys Tyr Asn Glu Gln Phe Lys
1 5 10 15

Gly

<210> 307
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<400> 307

Ala Tyr Phe Gly Asn Ala Phe Ala Tyr
1 5

<210> 308
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Arg Ser Ser Gln Ser Leu Leu Glu Ser Gly Asn Arg Lys Asn Tyr Leu
1 5 10 15

Thr

<210> 309
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Arg Ser Ser Gln Ser Leu Leu Asn Ala Gly Asn Arg Lys Asn Tyr Leu
1 5 10 15

Thr

<210> 310
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Tyr Ile Thr Ser Gly Gln Ser Pro Ile Tyr Phe Thr Asp Thr Val Lys
1 5 10 15

Gly

<210> 311
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<400> 311

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

Gly

<210> 312

<211> 10
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<400> 312

Ser Ser Tyr Tyr Gly Gln Ser Met Asp Tyr
1 5 10

<210> 313
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Ser Ser Tyr Tyr Gly Glu Ser Met Asp Tyr
1 5 10

<210> 314
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<400> 314

Ser Ser Tyr Tyr Gly Asn Ala Met Asp Tyr
1 5 10