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<110> Bristol-Myers Squibb Company
Schneeweis, Lumelle
Bush, Alex
Dasgupta, Ruchira
Engle, Linda

<120> Fibronectin Based Scaffold Domain Proteins That Bind IL-23

<130> 11563 PCT

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<151> 2010-02-18

<150> 61/330706
<151> 2010-05-03

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Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
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Tyr Pro Met His Val Arg
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Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
         35                  40
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Glu Phe Thr Val Pro His Arg Thr His Thr
Ala Thr Ile Ser Gly Leu
     50                  55
    60


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


Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
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Glu Ile Asp Lys Pro Ser Gln His His His
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Tyr Pro Leu His Val Arg
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Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
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Glu Phe Thr Val Pro Tyr Tyr His Tyr Thr

Ala Thr Ile Ser Gly Leu
50 55
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Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Thr Tyr Tyr
65 70
75 80

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

Glu Phe Thr Val Pro Ser Lys Gln His Thr
Ala Thr Ile Ser Gly Leu
50 55
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Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Thr Tyr Tyr
65 70
75 80

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
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Glu Ile Asp Lys Pro Ser Gln His His His
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Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
        35                  40
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Glu Phe Thr Val Pro Ser Asn Val His Thr
Ala Thr Ile Ser Gly Leu
    50                  55
  60


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


Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
                85                  90
              95


Glu Ile Asp Lys Pro Ser Gln His His His
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Gly Asn Ser Pro Val Gln
35 40
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Glu Phe Thr Val Pro Asn Arg Ala His Thr
Ala Thr Ile Ser Gly Leu
50 55
60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Thr Tyr Tyr
65 70
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Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
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Glu Ile Asp Lys Pro Ser Gln His His His
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Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
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Glu Phe Thr Val Pro Arg Lys Thr Tyr Thr
Ala Thr Ile Ser Gly Leu
50 55
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Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Thr Tyr Tyr
65 70
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Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
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Glu Ile Asp Lys Pro Ser Gln His His His
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Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
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Glu Phe Thr Val Pro Arg Ser Arg Tyr Thr
Ala Thr Ile Ser Gly Leu
50 55
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Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Thr Tyr Tyr
65 70
75 80

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Ser Ile Asn Tyr Arg Thr
85 90
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Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
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Glu Phe Thr Val Pro Ser Arg Tyr Tyr Thr
Ala Thr Ile Ser Gly Leu
50 55
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Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Thr Tyr Tyr
65 70
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Ser Ile Asn Tyr Arg Thr
85 90
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Gly Asn Ser Pro Val Gln
35 40
45

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

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Thr Tyr Tyr
65 70
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Ser Ile Asn Tyr Arg Thr
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Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
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Glu Phe Thr Val Pro Arg Ser Thr His Thr
Ala Thr Ile Ser Gly Leu
50 55
60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val

Tyr Ala Val Thr Tyr Tyr
65 70
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Ser Ile Asn Tyr Arg Thr
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Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
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Glu Phe Thr Val Pro Ser Arg Ile Tyr Thr
Ala Thr Ile Ser Gly Leu
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Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Thr Tyr Tyr
65 70
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Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
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Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
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Glu Phe Thr Val Pro His Gln Arg Tyr Thr
Ala Thr Ile Ser Gly Leu
50 55
60

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 72

<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1487C03

<400> 72

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Ile Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

Glu Phe Thr Val Pro Lys Gln Val Tyr Thr

Ala Thr Ile Ser Gly Leu
50 55
60

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 73
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>

<221> MISC_FEATURE
<223> 1487G03

<400> 73

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 74
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1487D09

<400> 74

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

```
Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Met His Ile Arg
            20                  25
          30


Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
        35                  40
      45


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


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


Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
                85                  90
              95


Glu Ile Asp Lys Pro Ser Gln His His His
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His His His
100 105

<210> 75
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1487H04

<400> 75

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Met His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly

Gly Asn Ser Pro Val Gln
35 40
45

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

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

Gln Glu Tyr Glu Tyr Arg Tyr Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 76
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1490E02

<400> 76

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Met His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 77
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1490G02

<400> 77

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Met His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Met Glu Glu Lys Tyr Ala Val Ile Pro Ile

Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 78
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1490H05

<400> 78

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His

Tyr Pro Leu His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

Glu Phe Thr Val Pro Met Arg Gln His Thr
Ala Thr Ile Ser Gly Leu
50 55
60

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

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

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 79
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1490B03

<400> 79

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His Tyr Pro Leu His Val Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

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

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

Lys Glu Ala Asn Tyr Arg Glu Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 80
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1490H06

<400> 80

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Ile Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val

Tyr Ala Val Thr Tyr Tyr
65 70
75 80

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His His His His
100 105

<210> 81
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1490A07

<400> 81

Met Gly Val Ser Asp Val Pro Arg Asp Leu

Glu Val Val Ala Ala Thr
1 5 10
15

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Ile Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

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

Glu Ile Asp Lys Pro Ser Gln His His His
His His His His
100 105

<210> 82
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1490C07

<400> 82

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 83

<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1490H08

<400> 83

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Ile Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

Glu Phe Thr Val Pro Asn Thr Ser His Thr

Ala Thr Ile Ser Gly Leu
50 55
60

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 84
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>

<221> MISC_FEATURE
<223> 1491A05

<400> 84

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

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

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 85
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1571H03

<400> 85

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

```
Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Val Arg
            20                  25
           30


Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
         35                  40
        45


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


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


Ala Gln Glu Glu Tyr His Ile Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
                85                  90
               95


Glu Ile Asp Lys Pro Ser Gln His His His
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His His His
100 105

<210> 86
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1571G04

<400> 86

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly

Gly Asn Ser Pro Val Gln
35 40
45

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

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

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

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 87
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1571G06

<400> 87

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Leu Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Lys Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 88
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1571F10

<400> 88

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Ile Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Glu Gln Val Glu Tyr Arg Glu Ile Pro Ile

Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 89
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1572D04

<400> 89

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His

Tyr Pro Met His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Glu Gln Pro Ile Tyr Ala Thr Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 90
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1572F05

<400> 90

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Ile Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 91
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1572G06

<400> 91

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val

Tyr Ala Val Thr Tyr Tyr
65 70
75 80

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

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 92
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1572B10

<400> 92

Met Gly Val Ser Asp Val Pro Arg Asp Leu

Glu Val Val Ala Ala Thr
1 5 10
15

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Met His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His His
100 105

<210> 93
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1572C09

<400> 93

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Met His Ile Arg
20 25
30

```
Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
        35                  40
       45

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

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
                85                  90
               95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
            100                 105
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<210> 94

<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1572H05

<400> 94

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Ile Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

Glu Phe Thr Val Pro Arg Ser Lys Tyr Thr

Ala Thr Ile Ser Gly Leu
50 55
60

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

Glu Gln Val Glu Tyr Arg Glu Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 95
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>

<221> MISC_FEATURE
<223> 1572H08

<400> 95

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 96
<211> 109
<212> PRT
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<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1550A07

<400> 96

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

```
Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Met His Val Arg
            20                  25
          30


Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
        35                  40
      45


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


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


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


Glu Ile Asp Lys Pro Ser Gln His His His
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His His His
100 105

<210> 97
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1550C05

<400> 97

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Met His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly

Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 98
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1550E03

<400> 98

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Leu His Ile Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Ser Glu Glu Leu Tyr Lys Tyr Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 99
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1550E06

<400> 99

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Pro Met His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Ala Gln Glu Asn Tyr Lys Glu Ile Pro Ile

Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 100
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> 1550H05

<400> 100

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His

Tyr Pro Leu His Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Glu Ala Asp Tyr Ser Gln Ile Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 101
<211> 4
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> Linker GSGC

<400> 101

Gly Ser Gly Cys
1

<210> 102
<211> 7
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<220>
<221> MISC_FEATURE
<223> Linker EIDKPCQ

<400> 102

Glu Ile Asp Lys Pro Cys Gln
1 5

<210> 103
<211> 82
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 103

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp His Ser
1 5 10
15

Tyr Tyr Glu Gln Asn Ser Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Tyr Gly Ser Lys Tyr Tyr Tyr
Pro Ile Ser Ile Asn Tyr
65 70
75 80

Arg Thr

<210> 104
<211> 8
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 104

His Ser Tyr Tyr Glu Gln Asn Ser
1 5

<210> 105

<211> 4
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 105

Tyr Ser Gln Thr
1

<210> 106
<211> 7
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 106

Tyr Gly Ser Lys Tyr Tyr Tyr
1 5

<210> 107
<211> 86
<212> PRT
<213> artificial

<220>

<223> Polypeptide

<400> 107

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Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Pro Lys
1               5                  10
                15

Tyr Asp Lys Thr Gly His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
            20                  25
        30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Pro Thr Arg Gln Thr Thr
        35                  40
    45

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

Tyr Ala Val Ser Lys Asp Asp Tyr Tyr Pro
His Glu His Arg Pro Ile
65                  70
75                  80
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Ser Ile Asn Tyr Arg Thr
85

<210> 108
<211> 8
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 108

Pro Lys Tyr Asp Lys Thr Gly His
1 5

<210> 109
<211> 4
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 109

Thr Arg Gln Thr
1

<210> 110
<211> 11
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 110

Ser Lys Asp Asp Tyr Tyr Pro His Glu His Arg
1 5 10

<210> 111
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 111

Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Ser Asn
1 5 10 15

Asp Gly Pro Gly Leu Ser Tyr Tyr Arg Ile

Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Pro Ser Ser Gln Thr Thr
35 40
45

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

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

Ser Ile Asn Tyr Arg Thr
85

<210> 112
<211> 8
<212> PRT
<213> artificial

<220>

<223> Polypeptide

<400> 112

Ser Asn Asp Gly Pro Gly Leu Ser
1 5

<210> 113
<211> 4
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 113

Ser Ser Gln Thr
1

<210> 114
<211> 11
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 114

Ser Tyr Tyr Thr Lys Lys Ala Tyr Ser Ala

Gly
1 5 10

<210> 115
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 115

Glu Met Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Glu Asp
1 5 10
15

Asp Ser Tyr Tyr Ser Arg Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Thr Tyr Asp Val Thr Asp Leu
Ile Met His Glu Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 116
<211> 8
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 116

Glu Asp Asp Ser Tyr Tyr Ser Arg
1 5

<210> 117
<211> 4
<212> PRT

<213> artificial

<220>
<223> Polypeptide

<400> 117

Ser Asp Leu Tyr
1

<210> 118
<211> 10
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 118

Tyr Asp Val Thr Asp Leu Ile Met His Glu
1 5 10

<210> 119
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 119

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Glu Asp
1 5 10
15

Asp Ser Tyr Tyr Ser Arg Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Thr Tyr Asp Val Thr Asp Leu
Ile Met His Glu Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr

<210> 120
<211> 8
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 120

Glu Asp Asp Ser Tyr Tyr Ser Arg
1 5

<210> 121
<211> 4
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 121

Ser Asp Leu Tyr
1

<210> 122
<211> 10

<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 122

Tyr Asp Val Thr Asp Leu Ile Met His Glu
1 5 10

<210> 123
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 123

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Tyr Met
1 5 10
15

Asp Glu Tyr Asp Val Arg Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Thr Arg Ile Lys Ala Asn Asn
Tyr Met Tyr Gly Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 124
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 124

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Asn His
1 5 10
15

Leu Glu His Val Ala Arg Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Thr Ile Thr Met Leu Lys Tyr
Pro Thr Gln Ser Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 125
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 125

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

Tyr Arg Arg Ser Gly His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Asp Pro Ser Ser Tyr Thr
35 40
45

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

Tyr Ala Val Ser Lys Asp Asp Tyr Tyr Pro
His Glu His Arg Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 126
<211> 84
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 126

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Asp Ala
1 5 10
15

Ser His Tyr Glu Arg Arg Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Pro Arg Tyr His His Thr
35 40
45

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

Tyr Ala Val Thr Gln Ala Gln Glu His Tyr
Gln Pro Pro Ile Ser Ile
65 70
75 80

Asn Tyr Arg Thr

<210> 127
<211> 82
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 127

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Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Asn Ser
1               5                  10
                15


Tyr Tyr His Ser Ala Asp Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
            20                  25
            30


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


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


Tyr Ala Val Tyr Ser Ala Lys Ser Tyr Tyr
Pro Ile Ser Ile Asn Tyr
65                  70
75                  80


Arg Thr
```

<210> 128
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 128

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Ser Lys
1 5 10
15

Tyr Ser Lys His Gly His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Glu Asp Thr Asn Asp Tyr Pro
His Thr His Arg Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 129
<211> 84
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 129

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

Glu Pro Asp Gln Thr Arg Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Pro Pro Tyr Arg Arg Thr
35 40
45

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

Tyr Ala Val Thr Ser Gly Tyr Thr Gly His
Tyr Gln Pro Ile Ser Ile
65 70
75 80

Asn Tyr Arg Thr

<210> 130
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 130

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Ser Lys
1 5 10
15

Tyr Ser Lys His Gly His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Asp Pro Ser Ser Tyr Thr
35 40
45

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

Tyr Ala Val Ser Lys Asp Asp Tyr Tyr Pro
His Glu His Arg Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 131
<211> 82
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 131

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Tyr Glu
1 5 10
15

Pro Tyr Thr Pro Ile His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Tyr Gly Tyr Tyr Gln Tyr Thr
Pro Ile Ser Ile Asn Tyr
65 70
75 80

Arg Thr

<210> 132
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 132

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Ser Lys
1 5 10
15

Tyr Ser Lys His Gly His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Ser Asp Asp Asn Lys Tyr Tyr
His Gln His Arg Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 133
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 133

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


Tyr Arg Arg Ser Gly His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
            20                  25
            30


Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Asp Pro Ser Ser Tyr Thr
        35                  40
        45


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


Tyr Ala Val Ser Lys Asp Asp Tyr Tyr Pro
His Glu His Arg Pro Ile
65                  70
75                  80


Ser Ile Asn Tyr Arg Thr
                85
```

<210> 134
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 134

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Ser Lys
1 5 10
15

Tyr Ser Lys His Gly His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Glu Asp Thr Asn Asp Tyr Pro
His Thr His Arg Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 135
<211> 82
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 135

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Tyr Glu
1 5 10
15

Pro Gly Ala Ser Val Tyr Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Pro Ser Tyr Tyr His Thr
35 40
45

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

Tyr Ala Val Tyr Gly Tyr Tyr Glu Tyr Glu
Pro Ile Ser Ile Asn Tyr
65 70
75 80

Arg Thr

<210> 136
<211> 82
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 136

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

Tyr Tyr Ala His Ser Asp Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Tyr Ala Gly Ser Ser Tyr Tyr
Pro Ile Ser Ile Asn Tyr
65 70
75 80

Arg Thr

<210> 137
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 137

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

Tyr Arg Arg Ser Gly His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Asp Pro Ser Ser Tyr Thr
35 40
45

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

Tyr Ala Val Ser Lys Asp Asp Tyr Tyr Pro
His Glu His Arg Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 138
<211> 82
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 138

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

Pro Gly Thr Pro Val Tyr Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Tyr Gly Tyr Tyr Asp Tyr Ser
Pro Ile Ser Ile Asn Tyr
65 70
75 80

Arg Thr

<210> 139
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 139

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Tyr Arg
1 5 10
15

Tyr Glu Lys Thr Gln His Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Pro Pro Glu Ser Gly Thr
35 40
45

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

Tyr Ala Val Tyr Ala Gly Tyr Glu Tyr Pro
His Thr His Arg Pro Ile
65 70
75 80

Ser Ile Asn Tyr Arg Thr
85

<210> 140
<211> 87
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 140

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Val Lys
1 5 10
15

Ser Glu Glu Tyr Tyr Arg Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Pro Tyr Tyr Val His Thr
35 40
45

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

Tyr Ala Val Thr Glu Tyr Tyr Tyr Ala Gly
Ala Val Val Ser Val Pro
65 70
75 80

Ile Ser Ile Asn Tyr Arg Thr
85

<210> 141
<211> 82
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 141

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Tyr Asp
1 5 10
15

Pro Tyr Thr Tyr Gly Ser Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

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

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

Tyr Ala Val Ser Tyr Tyr Tyr Ser Thr Gln
Pro Ile Ser Ile Asn Tyr
65 70
75 80

Arg Thr

<210> 142
<211> 86
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 142

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Ser Asn
1 5 10
15

Asp Gly Pro Gly Leu Ser Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Pro Ser Ser Gln Thr Thr
35 40
45

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

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

Ser Ile Asn Tyr Arg Thr
85

<210> 143
<211> 82
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 143

Glu Val Val Ala Ala Thr Pro Thr Ser Leu
Leu Ile Ser Trp Pro Asp
1 5 10
15

Pro Tyr Tyr Lys Pro Asp Tyr Tyr Arg Ile
Thr Tyr Gly Glu Thr Gly
20 25
30

Gly Asn Ser Pro Val Gln Glu Phe Thr Val
Pro Arg Asp Tyr Thr Thr
35 40
45

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

Tyr Ala Val Tyr Ser Tyr Tyr Gly Tyr Tyr
Pro Ile Ser Ile Asn Tyr
65 70
75 80

Arg Thr

<210> 144
<211> 10
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 144

Met Gly Val Ser Asp Val Pro Arg Asp Leu
1 5 10

<210> 145
<211> 9
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 145

Gly Val Ser Asp Val Pro Arg Asp Leu
1 5

<210> 146
<211> 8
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 146

Val Ser Asp Val Pro Arg Asp Leu
1 5

<210> 147
<211> 7
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 147

Ser Asp Val Pro Arg Asp Leu
1 5

<210> 148
<211> 6
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 148

Asp Val Pro Arg Asp Leu
1 5

<210> 149
<211> 5
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 149

Val Pro Arg Asp Leu
1 5

<210> 150
<211> 4
<212> PRT

<213> artificial

<220>
<223> Polypeptide

<400> 150

Pro Arg Asp Leu
1

<210> 151
<211> 3
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 151

Arg Asp Leu
1

<210> 152
<211> 2
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 152

Asp Leu
1

<210> 153
<211> 7
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 153

Glu Ile Asp Lys Pro Ser Gln
1 5

<210> 154
<211> 6
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 154

Glu Ile Asp Lys Pro Ser
1 5

<210> 155
<211> 6
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 155

Glu Ile Asp Lys Pro Cys
1 5

<210> 156
<211> 5
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 156

Glu Ile Asp Lys Pro
1 5

<210> 157
<211> 4
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 157

Glu Ile Asp Lys
1

<210> 158
<211> 2
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 158

Glu Ile
1

<210> 159
<211> 7
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 159

Glu Ile Glu Lys Pro Ser Gln
1 5

<210> 160
<211> 9
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 160

Glu Ile Asp Lys Pro Ser Gln Leu Glu
1 5

<210> 161
<211> 12
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 161

Glu Ile Glu Asp Glu Asp Glu Asp Glu Asp Glu Asp
1 5 10

<210> 162
<211> 17
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 162

Glu Ile Glu Lys Pro Ser Gln Glu Asp Glu Asp Glu Asp Glu Asp Glu
1 5 10 15

Asp

<210> 163
<211> 5
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 163

Glu Gly Ser Gly Ser

1 5

<210> 164
<211> 5
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 164

Gly Gly Ser Gly Ser
1 5

<210> 165
<211> 9
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 165

Gly Gly Ser Gly Ser Gly Ser Gly Ser
1 5

<210> 166
<211> 13

<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 166

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

<210> 167
<211> 15
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 167

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

<210> 168
<211> 16
<212> PRT

<213> artificial

<220>
<223> Polypeptide

<400> 168

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

<210> 169
<211> 4
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 169

Gly Ser Gly Ser
1

<210> 170
<211> 8
<212> PRT
<213> artificial

<220>

<223> Polypeptide

<400> 170

Gly Ser Gly Ser Gly Ser Gly Ser
1 5

<210> 171
<211> 14
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 171

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

<210> 172
<211> 13
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 172

Gly Ser Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Ser
1 5 10

<210> 173
<211> 15
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 173

Gly Ser Glu Gly Ser Glu Gly Ser Glu Gly Ser Glu Gly Ser Glu
1 5 10 15

<210> 174
<211> 15
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 174

Pro Ala Ser Pro Ala Ser Pro Ala Ser Pro
Ala Ser Pro Ala Ser
1 5 10
15

<210> 175
<211> 15
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 175

Gly Ser Pro Gly Ser Pro Gly Ser Pro Gly
Ser Pro Gly Ser Pro
1 5 10
15

<210> 176
<211> 14
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 176

Gly Ser Thr Val Ala Ala Pro Ser Thr Val

Ala Ala Pro Ser
1 5 10

<210> 177
<211> 8
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 177

Gly Gly Ser Glu Gly Gly Ser Glu
1 5

<210> 178
<211> 7
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 178

Ser Thr Ser Thr Ser Thr Gly
1 5

<210> 179
<211> 35
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 179

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
Gly Gly Gly Ser Gly Gly
20 25
30

Gly Gly Ser
35

<210> 180
<211> 30
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 180

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
Gly Gly Gly Ser
20 25
30

<210> 181
<211> 16
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 181

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

<210> 182
<211> 7

<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 182

Gly Pro Gly Pro Gly Pro Gly
1 5

<210> 183
<211> 11
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 183

Gly Pro Gly Pro Gly Pro Gly Pro Gly Pro Gly
1 5 10

<210> 184
<211> 7
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 184

Pro Ser Thr Ser Thr Ser Thr
1 5

<210> 185
<211> 6
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 185

Pro Ala Pro Ala Pro Ala
1 5

<210> 186
<211> 12
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 186

Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala
Pro Ala
1 5 10

<210> 187
<211> 18
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 187

Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala
Pro Ala Pro Ala Pro Ala
1 5 10
15

Pro Ala

<210> 188
<211> 105
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 188

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

Pro Thr Ser Leu Leu Ile Ser Trp His Ser
Tyr Tyr Glu Gln Asn Ser
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Lys Tyr Tyr Tyr Pro Ile Ser Ile Asn Tyr
Arg Thr Glu Ile Asp Lys
85 90
95

Pro Ser Gln His His His His His His
100 105

<210> 189
<211> 104
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 189

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

Pro Thr Ser Leu Leu Ile Ser Trp His Ser
Tyr Tyr Glu Gln Asn Ser
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly

Gly Asn Ser Pro Val Gln
35 40
45

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

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

Lys Tyr Tyr Tyr Pro Ile Ser Ile Asn Tyr
Arg Thr Glu Ile Glu Asp
85 90
95

Glu Asp Glu Asp Glu Asp Glu Asp Glu Asp
100

<210> 190
<211> 110
<212> PRT
<213> artificial

<220>

<223> Polypeptide

<400> 190

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

Pro Thr Ser Leu Leu Ile Ser Trp His Ser
Tyr Tyr Glu Gln Asn Ser
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Lys Tyr Tyr Tyr Pro Ile Ser Ile Asn Tyr
Arg Thr Glu Ile Glu Asp
85 90
95

Glu Asp Glu Asp Glu Asp Glu Asp His His
His His His His
100 105
110

<210> 191
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 191

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

Pro Thr Ser Leu Leu Ile Ser Trp Pro Lys
Tyr Asp Lys Thr Gly His
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asp Tyr Tyr Pro His Glu His Arg Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 192

<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 192

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

Pro Thr Ser Leu Leu Ile Ser Trp Ser Asn Asp Gly Pro Gly Leu Ser
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

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

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

Thr Lys Lys Ala Tyr Ser Ala Gly Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 193
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 193

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

Pro Thr Ser Leu Leu Ile Ser Trp Glu Asp
Asp Ser Tyr Tyr Ser Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Val Thr Asp Leu Ile Met His Glu Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His

100 105

<210> 194
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 194

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

Pro Thr Ser Leu Leu Ile Ser Trp Glu Asp
Asp Ser Tyr Tyr Ser Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

Glu Phe Thr Val Pro Ser Asp Leu Tyr Thr

Ala Thr Ile Ser Gly Leu
50 55
60

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

Val Thr Asp Leu Ile Met His Glu Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 195
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 195

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

Pro Thr Ser Leu Leu Ile Ser Trp Tyr Met
Asp Glu Tyr Asp Val Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Lys Ala Asn Asn Tyr Met Tyr Gly Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90

Glu Ile Asp Lys Pro Ser Gln His His His
His His His His
100 105

<210> 196
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 196

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

Pro Thr Ser Leu Leu Ile Ser Trp Asn His
Leu Glu His Val Ala Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln

35 40

45

Glu Phe Thr Val Pro Glu Tyr Pro Thr Thr
Ala Thr Ile Ser Gly Leu
50 55

60

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

Met Leu Lys Tyr Pro Thr Gln Ser Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90

95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 197
<211> 109
<212> PRT
<213> artificial

<220>

<223> Polypeptide

<400> 197

```
Met Gly Val Ser Asp Val Pro Arg Asp Leu
Glu Val Val Ala Ala Thr
1               5                  10
                15

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Arg Arg Ser Gly His
            20                  25
        30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
        35                  40
    45

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

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

Asp Tyr Tyr Pro His Glu His Arg Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 198
<211> 107
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 198

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

Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala
Ser His Tyr Glu Arg Arg
20 25

30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Gln Glu His Tyr Gln Pro Pro Ile Ser Ile
Asn Tyr Arg Thr Glu Ile
85 90
95

Asp Lys Pro Ser Gln His His His His His
His
100 105

<210> 199
<211> 105
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 199

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

Pro Thr Ser Leu Leu Ile Ser Trp Asn Ser
Tyr Tyr His Ser Ala Asp
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Lys Ser Tyr Tyr Pro Ile Ser Ile Asn Tyr
Arg Thr Glu Ile Asp Lys
85 90
95

Pro Ser Gln His His His His His His
100 105

<210> 200
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 200

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

Pro Thr Ser Leu Leu Ile Ser Trp Ser Lys
Tyr Ser Lys His Gly His
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Asp Tyr Pro His Thr His Arg Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 201
<211> 107
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 201

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

Pro Thr Ser Leu Leu Ile Ser Trp His Gly
Glu Pro Asp Gln Thr Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

Glu Phe Thr Val Pro Pro Tyr Arg Arg Thr
Ala Thr Ile Ser Gly Leu

50 55 60

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

Tyr Thr Gly His Tyr Gln Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile
85 90 95

Asp Lys Pro Ser Gln His His His His His His
100 105

<210> 202
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 202

Met Gly Val Ser Asp Val Pro Arg Asp Leu

Glu Val Val Ala Ala Thr
1 5 10
15

Pro Thr Ser Leu Leu Ile Ser Trp Ser Lys
Tyr Ser Lys His Gly His
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asp Tyr Tyr Pro His Glu His Arg Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 203
<211> 105
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 203

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

Pro Thr Ser Leu Leu Ile Ser Trp Tyr Glu
Pro Tyr Thr Pro Ile His
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40

45

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

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

Tyr Gln Tyr Thr Pro Ile Ser Ile Asn Tyr
Arg Thr Glu Ile Asp Lys
85 90
95

Pro Ser Gln His His His His His His
100 105

<210> 204
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 204

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

Pro Thr Ser Leu Leu Ile Ser Trp Ser Lys
Tyr Ser Lys His Gly His
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asn Lys Tyr Tyr His Gln His Arg Pro Ile

Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 205
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 205

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

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Arg Arg Ser Gly His
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asp Tyr Tyr Pro His Glu His Arg Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 206
<211> 109
<212> PRT

<213> artificial

<220>

<223> Polypeptide

<400> 206

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

Pro Thr Ser Leu Leu Ile Ser Trp Ser Lys Tyr Ser Lys His Gly His
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

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

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Glu Asp Thr

65 70
75 80

Asn Asp Tyr Pro His Thr His Arg Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 207
<211> 105
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 207

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

Pro Thr Ser Leu Leu Ile Ser Trp Tyr Glu

Pro Gly Ala Ser Val Tyr
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Tyr Glu Tyr Glu Pro Ile Ser Ile Asn Tyr
Arg Thr Glu Ile Asp Lys
85 90
95

Pro Ser Gln His His His His His His
100 105

<210> 208
<211> 105
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 208

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

Pro Thr Ser Leu Leu Ile Ser Trp Gln Ser
Tyr Tyr Ala His Ser Asp
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

```
Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Tyr Ala Gly
65                  70
75                  80


Ser Ser Tyr Tyr Pro Ile Ser Ile Asn Tyr
Arg Thr Glu Ile Asp Lys
                 85                  90
               95


Pro Ser Gln His His His His His His
            100                 105


<210>  209
<211>  109
<212>  PRT
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<220>
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<400>  209

Met Gly Val Ser Asp Val Pro Arg Asp Leu
Glu Val Val Ala Ala Thr
1                5                  10
              15
```

Pro Thr Ser Leu Leu Ile Ser Trp Gly His
Tyr Arg Arg Ser Gly His
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Asp Tyr Tyr Pro His Glu His Arg Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 210
<211> 105
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 210

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

Pro Thr Ser Leu Leu Ile Ser Trp Pro Glu
Pro Gly Thr Pro Val Tyr
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

Glu Phe Thr Val Pro Ala Tyr Tyr Gly Thr
Ala Thr Ile Ser Gly Leu

50 55
60

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

Tyr Asp Tyr Ser Pro Ile Ser Ile Asn Tyr
Arg Thr Glu Ile Asp Lys
85 90
95

Pro Ser Gln His His His His His His
100 105

<210> 211
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 211

Met Gly Val Ser Asp Val Pro Arg Asp Leu
Glu Val Val Ala Ala Thr
1 5 10

15

Pro Thr Ser Leu Leu Ile Ser Trp Tyr Arg
Tyr Glu Lys Thr Gln His
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Tyr Glu Tyr Pro His Thr His Arg Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90
95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 212
<211> 110
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 212

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

Pro Thr Ser Leu Leu Ile Ser Trp Val Lys
Ser Glu Glu Tyr Tyr Arg
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Tyr Tyr Ala Gly Ala Val Val Ser Val Pro
Ile Ser Ile Asn Tyr Arg
85 90
95

Thr Glu Ile Asp Lys Pro Ser Gln His His
His His His His
100 105
110

<210> 213
<211> 105
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 213

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

Pro Thr Ser Leu Leu Ile Ser Trp Tyr Asp
Pro Tyr Thr Tyr Gly Ser
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln
35 40
45

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

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

Tyr Ser Thr Gln Pro Ile Ser Ile Asn Tyr

Arg Thr Glu Ile Asp Lys
85 90
95

Pro Ser Gln His His His His His His
100 105

<210> 214
<211> 109
<212> PRT
<213> artificial

<220>
<223> Polypeptide

<400> 214

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

Pro Thr Ser Leu Leu Ile Ser Trp Ser Asn
Asp Gly Pro Gly Leu Ser
20 25
30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
Gly Asn Ser Pro Val Gln

35 40

45

Glu Phe Thr Val Pro Ser Ser Gln Thr Thr
Ala Thr Ile Ser Gly Leu
50 55

60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
Tyr Ala Val Ser Tyr Tyr
65 70

75 80

Thr Lys Lys Ala Tyr Ser Ala Gly Pro Ile
Ser Ile Asn Tyr Arg Thr
85 90

95

Glu Ile Asp Lys Pro Ser Gln His His His
His His His
100 105

<210> 215
<211> 105
<212> PRT
<213> artificial

<220>

<223> Polypeptide

<400> 215

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

Pro Thr Ser Leu Leu Ile Ser Trp Pro Asp Pro Tyr Tyr Lys Pro Asp
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

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

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

Tyr Gly Tyr Tyr Pro Ile Ser Ile Asn Tyr
Arg Thr Glu Ile Asp Lys
85 90
95

Pro Ser Gln His His His His His His
100 105

<210> 216
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Oligonucleotide

<220>
<221> MISC_FEATURE
<223> 1434A08

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180

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actgtgcctt actaccatta cacagctacc
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atcagcggcc ttaaacctgg cgttgattat
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<223> 1437A09

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actgtgcctt ctcgttacta cacagctacc
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atcagcggcc ttaaacctgg cgttgattat accatcactg tgtatgctgt cacttactac
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actgtgccta aacaggttta cacagctacc
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accatcactg tgtatgctgt cacttactac
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accatcactg tgtatgctgt cacttactac
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atcagcggcc ttaaacctgg cgttgattat accatcactg tgtatgctgt cacttactac
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atcagcggcc ttaaacctgg cgttgattat
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atcagcggcc ttaaacctgg cgttgattat
accatcactg tgtatgctgt cacttactac
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acaggaggca atagccctgt ccaggagttc

actgtgcctc cgcgttctca cacagctacc
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atcagcggcc ttaaacctgg cgttgattat
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atcagcggcc ttaaacctgg cgttgattat accatcactg tgtatgctgt cacttactac
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120

acaggaggca atagccctgt ccaggagttc actgtgcctc gtcagaaata cacagctacc
180

atcagcggcc ttaaacctgg cgttgattat accatcactg tgtatgctgt cacttactac
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ccatcccagc accatcacca ccaccactga
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<223> 1572G06

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120

acaggaggca atagccctgt ccaggagttc actgtgcctc gttacaaata cacagctacc
180

atcagcggcc ttaaacctgg cgttgattat accatcactg tgtatgctgt cacttactac
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gctcaggaaa actacaaaga aatcccaatt

tccattaatt accgcacaga aattgacaaa
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ccatcccagc accatcacca ccaccactga
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<220>
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<223> 1572B10

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gttcgatatt accgcatcac ttacggcgaa
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acaggaggca atagccctgt ccaggagttc
actgtgcctg ttccgcgtca tacagctacc
180

atcagcggcc ttaaacctgg cgttgattat
accatcactg tgtatgctgt cacttactac
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actgtgccta ctccgaaaca tacagctacc
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atcagcggcc ttaaacctgg cgttgattat
accatcactg tgtatgctgt cacttactac
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acaggaggca atagccctgt ccaggagttc
actgtgcctc gttctaaata cacagctacc
180

atcagcggcc ttaaacctgg cgttgattat
accatcactg tgtatgctgt cacttactac
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gaacaggttg aataccgtga aatcccaatt
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<223> 1572H08

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180

atcagcggcc ttaaacctgg cgttgattat accatcactg tgtatgctgt cacttactac
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acaggaggca atagccctgt ccaggagttc actgtgcctc cgcgtcgtta cacagctacc
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atcagcggcc ttaaacctgg cgttgattat accatcactg tgtatgctgt cacttactac
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acaggaggca atagccctgt ccaggagttc
actgtgcctc gtatgcgtca tacagctacc
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atcagcggcc ttaaacctgg cgttgattat
accatcactg tgtatgctgt cacttactac
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ctgatcagct ggggtcatta cccgatgcat
gttcgatatt accgcatcac ttacggcgaa
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acaggaggca atagccctgt ccaggagttc
actgtgcctc cgccgcgtca taccgctacc

180

atcagcggcc ttaaacctgg cgttgattat
accatcactg tgtatgctgt cacttactac
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gctcaggaaa actacaaaga aatcccaatt
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gttcgatatt accgcatcac ttacggcgaa
120

acaggaggca atagccctgt ccaggagttc
actgtgcctc gtcagatcta cacagctacc
180

atcagcggcc ttaaacctgg cgttgattat
accatcactg tgtatgctgt cacttactac
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<222> (5)..(5)
<223> Xaa can be M or L

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa can be I or V

<400> 257

Gly His Tyr Pro Xaa His Xaa
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<210> 258
<211> 10
<212> PRT
<213> artificial

<220>
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<223> FG Loop common sequence motif

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<221> misc_feature
<222> (3)..(6)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (8)..(9)
<223> Xaa can be any naturally occurring amino acid

<400> 258

Tyr Tyr Xaa Xaa Xaa Xaa Tyr Xaa Xaa Ile
1 5 10