

SEQUENCE LISTING

<110> I-MAB
 <120> ANTI-CXCL13 ANTIBODIES FOR TREATING AUTOIMMUNE DISEASES AND
 CANCER
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 <151> 2018-09-18
 <160> 373
 <170> PatentIn version 3.5
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Met Asp Phe Gly Leu Ile Phe Phe Ile Val Ala Leu Leu Lys Gly Val
 1 5 10 15

Gln Cys Glu Val Lys Leu Leu Gln Ser Gly Gly Gly Leu Val Gln Pro
 20 25 30

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Ile Asp Phe Ser
 35 40 45

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

Trp Ile Gly Glu Ile Asn Pro Asp Ser Ser Thr Ile Asn Tyr Ala Pro
 65 70 75 80

Ser Leu Lys Asp Lys Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr
 85 90 95

Leu Tyr Leu Gln Met Ser Lys Val Arg Ser Glu Asp Thr Ala Leu Tyr
 100 105 110

Tyr Cys Ala Arg Gln Asp Asp Tyr Asp Tyr Tyr Ala Met Asp Tyr Trp
115 120 125

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

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<400> 2

Met Gly Ile Lys Met Glu Ser Gln Ile Gln Val Phe Val Phe Val Phe
1 5 10 15

Leu Trp Leu Ser Gly Val Asp Gly Asp Ile Val Met Thr Gln Ser His
20 25 30

Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val Ser Ile Thr Cys Lys
35 40 45

Ala Ser Gln Asp Val Ser Thr Gly Val Ala Trp Tyr Gln Gln Lys Pro
50 55 60

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

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Arg Thr Asp Phe Thr
85 90 95

Phe Thr Ile Ser Ser Val Gln Thr Glu Asp Pro Ala Val Tyr Tyr Cys
100 105 110

His Gln Tyr Tyr Thr Ile Pro Leu Thr Phe Gly Ala Gly Thr Glu Leu
115 120 125

Glu Leu Lys
130

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<400> 3

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

Val Leu Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe
35 40 45

Thr Glu Tyr Ile Met His Trp Val Lys Gln Ser His Gly Arg Ser Leu
50 55 60

Glu Trp Ile Gly Gly Ile Asn Pro Asp Asn Gly Asp Thr Thr Tyr Asn
65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Thr
85 90 95

Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

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

Val Thr Val Ser Ser
130

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<400> 4

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

Glu Thr Asn Gly Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser
20 25 30

Val Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
50 55 60

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Phe Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Phe Thr Phe Gly Ser Gly Thr Lys
115 120 125

Leu Glu Ile Lys
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<400> 5

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

Val Leu Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe
35 40 45

Thr Glu Tyr Ile Met His Trp Val Lys Gln Ser His Glu Arg Ser Leu
50 55 60

Glu Trp Ile Gly Gly Ile His Pro Asp Asn Gly Asp Thr Thr Tyr Asn
65 70 75 80

Gln Lys Phe Thr Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Thr
85 90 95

Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

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

Val Thr Val Ser Ser
130

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<400> 6

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

Glu Thr Asn Gly Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser
20 25 30

Val Thr Phe Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

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

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Phe Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Phe Thr Phe Gly Ser Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

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<400> 7

Met Asp Ile Arg Leu Ser Leu Val Phe Leu Val Leu Phe Ile Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Ala Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Arg Ser Leu Lys Leu Ser Cys Ser Ala Ser Gly Phe Thr Phe
35 40 45

Ser Asp Tyr Tyr Met Ala Trp Phe Arg Gln Ala Pro Pro Lys Gly Leu
50 55 60

Glu Trp Val Ala Ser Ile Ser Tyr Asp Gly Gly Asp Ser Phe Tyr Arg
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser
85 90 95

Ser Leu Tyr Leu Gln Met Asp Ser Leu Arg Ser Glu Asp Thr Ala Thr
100 105 110

Tyr Tyr Cys Thr Thr Glu Glu Asp Tyr Ser Gly Ser Phe Pro Asp Tyr
115 120 125

Trp Gly Gln Gly Val Met Val Thr Val Ser Ser
130 135

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<400> 8

Met Met Ala Pro Val Gln Leu Leu Gly Leu Leu Leu Ile Trp Leu Pro
1 5 10 15

Ala Met Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Phe Leu Ser
20 25 30

Ala Ser Val Gly Asp Arg Val Thr Ile Asn Cys Lys Ala Ser Gln Asn
35 40 45

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

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

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Asn
85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Phe Cys Leu Gln His Asn
100 105 110

Ser Leu Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys
115 120 125

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<400> 9

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

Leu Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro
20 25 30

Ser Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr
35 40 45

Ser Asp Tyr Ala Trp Asn Trp Asn Arg Gln Phe Pro Gly Asn Lys Leu
50 55 60

Glu Trp Met Gly Tyr Ile Ser Tyr Ser Gly Asp Thr Ser Tyr Asn Pro
65 70 75 80

Ser Leu Arg Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln
85 90 95

Phe Phe Leu Gln Leu Asn Ser Val Thr Ala Glu Asp Thr Ala Lys Tyr
100 105 110

Tyr Cys Val Ala Gly His Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
115 120 125

Thr Val Ser Ser
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<400> 10

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

Glu Thr Asn Gly Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser
20 25 30

Ile Thr Leu Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asp Ser Asp Gly Glu Thr Tyr Leu Asn Trp Leu Leu Gln Arg
50 55 60

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys
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<400> 11

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

Val Leu Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe
35 40 45

Thr Glu Tyr Ile Met His Trp Val Lys Gln Ser His Gly Arg Ser Leu
50 55 60

Glu Trp Ile Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Thr Tyr Asn
65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
85 90 95

Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Gly Gly Val Met Asp Tyr Trp Gly Gln Gly Thr Ser
115 120 125

Val Thr Val Ser Ser
130

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<400> 12

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

Glu Thr Asn Gly Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser
20 25 30

Val Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
50 55 60

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Phe Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Phe Thr Phe Gly Ser Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

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Met Arg Val Leu Ile Leu Leu Trp Leu Leu Thr Ala Leu Pro Gly Ile
1 5 10 15

Leu Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro
20 25 30

Ser Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr
35 40 45

Ser Asp Tyr Ala Trp Asn Trp Ile Arg His Phe Pro Gly Asn Lys Leu
50 55 60

Glu Trp Met Gly Tyr Ile Ser Tyr Thr Gly Ser Ser Ser Tyr Asn Pro
65 70 75 80

Ser Leu Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln
85 90 95

Phe Phe Leu Gln Leu Asn Ser Val Thr Ser Glu Asp Thr Ala Thr Tyr
100 105 110

Tyr Cys Val Ala Gly His Phe Asp Tyr Trp Gly Pro Gly Thr Thr Leu
115 120 125

Thr Val Ser Ser
130

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<400> 14

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

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

Val Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
50 55 60

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

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<400> 15

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

Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Val Leu Val Arg
20 25 30

Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe
35 40 45

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

Glu Trp Ile Gly Val Ile Asn Pro Asn Asn Gly Gly Thr Thr Tyr Lys
65 70 75 80

Glu Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Gly
85 90 95

Thr Ala Tyr Met Glu Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Arg Asp Asp Tyr Asp Ala Gly Tyr Trp Gly Gln Gly
115 120 125

Thr Thr Leu Thr Val Ser Ser
130 135

<210> 16
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<400> 16

Met Gly Phe Lys Met Glu Phe His Thr Gln Val Phe Val Phe Val Phe
1 5 10 15

Leu Trp Leu Ser Gly Val Asp Gly Asp Ile Val Met Thr Gln Phe Gln
20 25 30

Lys Phe Met Ser Thr Thr Val Gly Asp Arg Val Ser Ile Thr Cys Lys
35 40 45

Ala Ser Gln Asn Val Asp Thr Ala Val Ala Trp Tyr Gln His Lys Pro
50 55 60

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Ser Ala Ser His Arg Tyr Thr
65 70 75 80

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Leu Thr Ile Ser Asn Val Gln Ser Glu Asp Leu Ala Asp Tyr Phe Cys
100 105 110

Gln Gln Tyr Thr Asp Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu
115 120 125

Glu Leu Lys
130

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<400> 17

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

Val Leu Ser His Val Thr Leu Arg Glu Ser Gly Pro Gly Val Leu Gln
20 25 30

Pro Ser Lys Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu
35 40 45

Ser Thr Ser Ala Met Val Val Ser Trp Ile Arg Gln Ser Ser Gly Met
50 55 60

Ser Leu Glu Trp Leu Ala Ala Ile Asp Trp Glu Gly Asp Lys Tyr Tyr
65 70 75 80

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

Thr Gln Val Phe Leu Arg Ile Thr Ser Val Asp Val Ala Asp Thr Ala
100 105 110

Thr Tyr Tyr Cys Ala Val Met Ser Ser Ala Asp Ser His Ser Val Leu
115 120 125

Asp Ala Trp Gly Gln Gly Val Ser Val Thr Val Ser Ser
130 135 140

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<400> 18

Met Met Ala Ala Leu Gln Leu Leu Gly Val Leu Leu Leu Trp Leu Pro
1 5 10 15

Ala Met Arg Cys Asp Ile Lys Met Thr Gln Ser Pro Ser Phe Leu Ser
20 25 30

Ala Ser Val Gly Asp Arg Val Thr Ile Asn Cys Lys Ala Ser Gln Asn
35 40 45

Ile His Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Phe Gly Glu Ala Pro
50 55 60

Arg Leu Leu Ile Tyr Asn Thr Asn Asn Leu Gln Thr Gly Ile Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
85 90 95

Ser Leu Gln Pro Glu Asp Val Ala Thr Tyr Phe Cys Leu Gln His Ser
100 105 110

Ser Ser Leu Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Asn
115 120 125

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<400> 19

Met Lys Leu Trp Leu Asn Trp Ile Phe Leu Leu Thr Leu Leu Asn Gly
1 5 10 15

Ile Gln Cys Glu Val Lys Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Ala Gly Gly Ser Met Arg Leu Ser Cys Gly Ala Phe Gly Phe Thr Val
35 40 45

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

Glu Trp Leu Gly Phe Met Arg Asn Lys Ala Asn Gly Tyr Thr Thr Glu
65 70 75 80

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

Gln Asn Met Pro Tyr Leu Gln Met Asn Thr Leu Arg Thr Glu Asp Thr
100 105 110

Ala Ile Tyr Tyr Cys Ala Arg Ser Arg Tyr Asn Ala Asp Asp Tyr Tyr
115 120 125

Val Gly Val Met Asp Val Trp Gly Gln Gly Ala Ser Val Thr Val Ser
130 135 140

Ser
145

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<400> 20

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

Asp Ala Ile Cys Asp Ile Gln Met Thr Gln Phe Pro Ala Ser Leu Ser
20 25 30

Ala Ser Leu Gly Glu Thr Val Ser Ile Glu Cys Leu Ala Ser Glu Asp
35 40 45

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

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

Arg Phe Ser Gly Thr Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn
85 90 95

Ser Leu Glu Ser Glu Asp Ala Ala Thr Tyr Phe Cys Leu Gln Asp Ser
100 105 110

Glu Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Lys Leu Lys
115 120 125

<210> 21

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<400> 21

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

Leu Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro
20 25 30

Ser Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr
35 40 45

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

Glu Trp Met Gly Tyr Ile Ser Tyr Ser Gly Asp Thr Ser Tyr Asn Pro
65 70 75 80

Ser Leu Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln
85 90 95

Phe Phe Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr
100 105 110

Tyr Cys Val Ala Gly His Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
115 120 125

Thr Val Ser Ser
130

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<400> 22

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

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

Val Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
50 55 60

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ile Arg Val Glu Ala Glu Asp Leu Gly Leu Tyr Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

<210> 23
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<400> 23

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

Leu Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro
20 25 30

Ser Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr
35 40 45

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

Glu Trp Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr Asn Pro
65 70 75 80

Ser Leu Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln
85 90 95

Phe Phe Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr
100 105 110

Tyr Cys Val Ala Gly His Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
115 120 125

Thr Val Ser Ser
130

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<400> 24

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

Glu Thr Asn Gly Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser
20 25 30

Ile Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
50 55 60

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

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<400> 25

Met Asn Phe Gly Leu Ser Leu Ile Phe Leu Val Leu Val Leu Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys
20 25 30

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

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

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

Asp Asn Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
85 90 95

Asn Leu Tyr Leu Gln Met Ser His Leu Lys Ser Glu Asp Thr Ala Met
100 105 110

Tyr Tyr Cys Ala Arg Asp Tyr Tyr Gly Ser Ser Tyr Glu Asp Tyr Ala
115 120 125

Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
130 135 140

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<400> 26

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

Gly Ala Gln Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30

Ala Ser Leu Gly Gly Lys Val Thr Ile Thr Cys Lys Ala Ser Gln Asp
35 40 45

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

Arg Leu Leu Ile His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Tyr Ser Phe Ser Ile Ser
85 90 95

Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp
100 105 110

Asn Leu Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
115 120 125

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

Leu Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro
20 25 30

Ser Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr
35 40 45

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

Glu Trp Met Gly Tyr Ile Ser Tyr Ser Asp Ser Thr Ser Tyr Asn Pro
65 70 75 80

Ser Leu Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln
85 90 95

Phe Phe Leu Gln Leu Asn Ser Val Thr Ala Glu Asp Thr Ala Thr Tyr
100 105 110

Tyr Cys Ala Ala Gly His Phe Asp Tyr Trp Gly Gln Gly Thr Ile Leu
115 120 125

Thr Val Ser Ser
130

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<400> 28

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

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

Val Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
50 55 60

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

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

Leu Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro
20 25 30

Ser Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr
35 40 45

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

Glu Trp Met Gly Tyr Ile Thr Tyr Ser Asp Ser Thr Ser Tyr Asn Pro
65 70 75 80

Ser Leu Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln
85 90 95

Phe Phe Leu Gln Leu Asn Ser Val Thr Ala Glu Asp Thr Ala Thr Tyr
100 105 110

Tyr Cys Ala Ala Gly His Phe Asp Tyr Trp Gly Gln Gly Thr Ile Leu
115 120 125

Thr Val Ser Ser
130

<210> 30

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 30

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

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

Val Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
50 55 60

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

<210> 31
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 31

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

Val Leu Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Gln Ala Ser Gly Tyr Ala Phe
35 40 45

Ser Asp Tyr Tyr Met Asn Trp Val Lys Gln Ser His Gly Lys Arg Leu
50 55 60

Glu Trp Ile Gly Asp Ile Asn Pro Asn Asn Asp Gly Thr Thr Tyr Asn
65 70 75 80

Gln Lys Phe Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
85 90 95

Thr Ala Tyr Met Asp Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Arg Leu Ser Trp Ser Phe Phe Ala Met Asp Tyr Trp
115 120 125

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

<210> 32
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 32

Met Gly Ile Lys Met Glu Ser Gln Ile Gln Val Phe Val Phe Val Phe
1 5 10 15

Leu Trp Val Ser Gly Val Asp Gly Asp Ile Val Met Thr Gln Ser His
20 25 30

Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val Ser Ile Thr Cys Lys
35 40 45

Ala Ser Gln Asp Val Ser Ser Gly Val Ala Trp Tyr Gln Gln Lys Pro
50 55 60

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

Gly Val Pro Asp Arg Phe Thr Ala Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Phe Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys
100 105 110

Gln Gln Tyr Tyr Asn Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 33
<211> 140
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 33

Met Asp Ile Arg Leu Ser Leu Gly Phe Leu Val Leu Phe Ile Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Gly Ser Leu Lys Leu Ser Cys Val Val Ser Gly Phe Thr Phe
35 40 45

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

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

Asp Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asn Asn Ala Lys Ser
85 90 95

Ser Leu Phe Leu Gln Met Asp Ser Leu Arg Ser Glu Asp Thr Ala Thr
100 105 110

Tyr Tyr Cys Lys Thr Glu Glu Asp Tyr Asp Gly Ser Tyr Val Met Asp
115 120 125

Ala Trp Gly Gln Gly Ala Ser Val Ile Val Ser Ser
130 135 140

<210> 34
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 34

Met Met Ala Pro Val Gln Leu Leu Gly Leu Leu Leu Ile Trp Leu Pro
1 5 10 15

Ala Met Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Phe Leu Ser
20 25 30

Ala Ser Val Gly Asp Arg Val Thr Ile Ser Cys Lys Ala Ser Gln Asn
35 40 45

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

Lys Arg Leu Ile Tyr Asn Thr Asn Ile Leu Gln Thr Gly Ile Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Asn Thr Asp Tyr Thr Leu Thr Ile Ser
85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Phe Cys Leu Gln Gln Ser
100 105 110

Ser Leu Tyr Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
115 120 125

<210> 35
<211> 142

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 35

Met Asn Phe Gly Leu Ser Leu Ile Phe Leu Val Leu Val Leu Lys Gly
1 5 10 15

Ile Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys
20 25 30

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

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

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

Asp Asn Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
85 90 95

Asn Leu Tyr Leu Gln Met Ser His Leu Lys Ser Glu Asp Thr Ala Met
100 105 110

Tyr Tyr Cys Ala Arg Asp Tyr Tyr Gly Ser Gly Tyr Glu Asp Ser Pro
115 120 125

Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
130 135 140

<210> 36
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 36

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

Gly Ala Gln Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30

Ala Ser Leu Gly Gly Lys Val Thr Ile Thr Cys Lys Ala Ser Gln Asp
35 40 45

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

Arg Leu Leu Ile His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Tyr Ser Phe Ser Ile Ser
85 90 95

Asn Leu Glu Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp
100 105 110

Asn Leu Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
115 120 125

<210> 37
<211> 132
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 37

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

Leu Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro
20 25 30

Ser Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr
35 40 45

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

Glu Trp Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr Asn Pro
65 70 75 80

Ser Leu Lys Ser Arg Ile Ser Ile Asn Arg Asp Thr Ser Lys Asn Gln
85 90 95

Phe Phe Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr
100 105 110

Tyr Cys Val Ala Gly His Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
115 120 125

Thr Val Ser Ser
130

<210> 38
<211> 132
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 38

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

Glu Thr Asn Gly Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser
20 25 30

Ile Thr Ile Gly Gln Ser Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
50 55 60

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

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
85 90 95

Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

<210> 39
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 39

Met Asp Phe Gly Leu Ile Phe Phe Ile Val Ala Leu Leu Lys Gly Val
1 5 10 15

Gln Cys Glu Val Lys Leu Leu Gln Ser Gly Gly Gly Leu Val Gln Pro
20 25 30

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Ile Asp Phe Ser
35 40 45

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

Trp Ile Gly Glu Ile Asn Pro Asp Ser Ser Thr Ile Asn Tyr Ala Pro
65 70 75 80

Ser Leu Lys Asp Lys Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr
85 90 95

Leu Tyr Leu Gln Met Ser Lys Val Arg Ser Glu Asp Thr Ala Leu Tyr
100 105 110

Tyr Cys Ala Arg Gln Asp Asp Tyr Glu Tyr Tyr Ala Met Asp Tyr Trp
115 120 125

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

<210> 40
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 40

Met Gly Ile Lys Met Glu Ser Gln Ile Gln Val Ser Val Phe Val Ile
1 5 10 15

Leu Trp Leu Ser Gly Val Asp Gly Asp Ile Val Met Thr Gln Ser His
20 25 30

Lys Ser Met Ser Thr Ser Val Gly Asp Arg Val Ser Ile Thr Cys Lys
35 40 45

Ala Ser Gln Asp Val Asn Thr Gly Val Ala Trp Tyr Arg Gln Lys Pro
50 55 60

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

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Phe Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys
100 105 110

Gln Gln Tyr Tyr Ser Thr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu
115 120 125

Glu Leu Lys
130

<210> 41
<211> 137
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 41

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

Val His Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Met Lys
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Thr Gly Tyr Thr Phe
35 40 45

Asn Thr Tyr Trp Ile Glu Trp Val Lys Gln Arg Pro Gly His Gly Leu
50 55 60

Glu Trp Ile Gly Glu Ile Leu Pro Gly Ser Glu Ser Thr Asp Tyr Asn
65 70 75 80

Glu Lys Phe Lys Asp Lys Ala Thr Phe Thr Ala Asp Ile Ser Ser Asn
85 90 95

Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Arg Asp Tyr Tyr Gly Tyr Tyr Phe Asp Tyr Trp Gly
115 120 125

Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135

<210> 42
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 42

Met Gly Ile Lys Met Glu Ser Gln Ile Gln Val Phe Val Phe Val Phe
1 5 10 15

Leu Trp Leu Ser Gly Val Asp Gly Asp Ile Val Met Thr Gln Ser His
20 25 30

Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val Ser Ile Thr Cys Lys
35 40 45

Ala Ser Gln Asp Val Ser Thr Ala Val Val Trp Tyr Gln Gln Lys Pro
50 55 60

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

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Phe Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys
100 105 110

Gln Gln His Tyr Ser Ser Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 43

<211> 137

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 43

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

Val His Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Met Lys
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ser Thr Gly Tyr Thr Phe
35 40 45

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

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

Glu Lys Phe Glu Gly Lys Ala Thr Phe Thr Ala Asp Thr Ser Ser Asn
85 90 95

Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Arg Asp Tyr Tyr Gly Phe Tyr Phe Asp Tyr Trp Gly
115 120 125

Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135

<210> 44
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 44

Met Gly Ile Lys Met Glu Ser Gln Ile Gln Val Phe Val Phe Val Phe
1 5 10 15

Leu Trp Leu Ser Gly Val Asp Gly Asp Ile Val Met Thr Gln Ser His
20 25 30

Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val Asn Ile Thr Cys Lys
35 40 45

Ala Ser Gln Asp Val Ser Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro
50 55 60

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Ser Thr Ser Tyr Arg Tyr Thr
65 70 75 80

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Phe Thr Ile Ser Asn Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys
100 105 110

Gln Gln His Tyr Thr Thr Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 45
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 45

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

Val Leu Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
35 40 45

Thr Asp Tyr Tyr Met Asn Trp Val Arg Gln Ser His Gly Lys Ser Leu
50 55 60

Glu Trp Ile Gly Asp Ile Asn Pro Asn Asn Gly Asp Thr Thr Tyr Asn
65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser
85 90 95

Thr Val Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Gly Tyr Asp Glu Asp His Tyr Ala Met Asp Tyr Trp
115 120 125

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

<210> 46
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 46

Met Gly Ile Lys Met Glu Ser Gln Met Gln Val Phe Val Phe Val Phe
1 5 10 15

Leu Trp Leu Ser Gly Val Asp Gly Asp Tyr Val Met Thr Gln Ser His
20 25 30

Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val Ser Ile Thr Cys Lys
35 40 45

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

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Ser Ala Ser His Arg Tyr Thr
65 70 75 80

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Phe Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys
100 105 110

Gln Gln Tyr Tyr Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 47
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 47

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

Val Leu Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Asn Thr Leu
35 40 45

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

Glu Trp Ile Gly Asp Ile Asn Pro Asn Asn Gly Asp Ile Ile Tyr Asn
65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Ala Lys Ser Ser Ser
85 90 95

Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Ile Tyr Tyr Asp Pro Tyr Tyr His Ala Met Asp Tyr
115 120 125

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
130 135

<210> 48
<211> 131

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 48

Met Gly Ile Lys Met Glu Ser Gln Ile Gln Val Phe Val Phe Val Phe
1 5 10 15

Leu Trp Leu Ser Gly Val Asp Gly Asp Ile Val Met Thr Gln Ser His
20 25 30

Lys Phe Met Ser Thr Ser Val Arg Asp Arg Val Ser Ile Thr Cys Lys
35 40 45

Ala Ser Gln Asp Val Ser Thr Gly Val Ala Trp Tyr Gln Gln Lys Pro
50 55 60

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

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Phe Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys
100 105 110

Gln Gln Gln Tyr Ser Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu
115 120 125

Glu Leu Lys
130

<210> 49
<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 49

Met Gly Trp Ser Cys Ile Met Leu Phe Leu Ala Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys
20 25 30

Pro Gly Ala Ser Val Lys Leu Ser Cys Gln Ala Ser Gly Tyr Thr Phe
35 40 45

Thr Ser Tyr Trp Met His Trp Val Lys Gln Arg Pro Gly Arg Gly Leu
50 55 60

Glu Trp Ile Gly Gly Ile Asp Pro Asp Ser Gly Ala Thr Lys Asp Asn
65 70 75 80

Glu Lys Phe Lys Thr Lys Ala Thr Leu Thr Val Asp Lys Pro Ser Arg
85 90 95

Thr Ala Tyr Ile Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Phe Tyr Cys Ala Arg Gly Ser Thr Val Val Ala Pro Gly Asp Tyr Phe
115 120 125

Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
130 135 140

<210> 50
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 50

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

Gly Ser Thr Gly Asp Ile Val Leu Thr Pro Ser Pro Thr Ser Leu Ala
20 25 30

Val Ser Leu Gly Gln Arg Ala Thr Met Ser Cys Arg Ala Ser Glu Ser
35 40 45

Val Asp Asn Tyr Gly Ile Ser Phe Met His Trp Tyr Gln Gln Lys Pro
50 55 60

Gly Gln Pro Pro Lys Leu Leu Ile Tyr Arg Ala Ser Asn Leu Asp Ser
65 70 75 80

Gly Ile Pro Ala Arg Phe Ser Ala Ser Gly Ser Arg Thr Asp Phe Thr
85 90 95

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

Gln Gln Ser Asn Lys Asp Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 51
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 51

Met Gly Arg Leu Thr Ser Ser Phe Leu Leu Leu Ile Val Pro Ala Tyr
1 5 10 15

Val Leu Ser Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln
20 25 30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Phe Ser Glu Phe Ser Leu
35 40 45

Ser Val Phe Gly Met Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys
50 55 60

Gly Leu Glu Trp Leu Ala His Ile Trp Trp Asp Asp Glu Lys Tyr Tyr
65 70 75 80

Asn Pro Ala Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys
85 90 95

Asn Gln Val Phe Leu Lys Ile Ala Asn Val Asp Thr Ala Asp Thr Ala
100 105 110

Thr Tyr Phe Cys Ala Arg Ile Asp Gly Tyr Tyr Asp Phe Asp Tyr Trp
115 120 125

Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135

<210> 52
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 52

Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
1 5 10 15

Ser Ser Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val
20 25 30

Ser Leu Gly Thr Gln Ala Ser Ile Phe Cys Arg Ser Ser His Ser Ile
35 40 45

Val Gln Asp Asn Gly Asn Thr Tyr Leu Gln Trp Tyr Leu Gln Lys Pro
50 55 60

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser
65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys
100 105 110

Phe Gln Gly Ser Tyr Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 53
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 53

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

Val Leu Ser Gln Ile Ala Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln
20 25 30

Ser Ser Gln Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu
35 40 45

Ser Thr Ser Gly Met His Val Gly Trp Phe Arg Gln Pro Ser Gly Lys
50 55 60

Thr Leu Glu Trp Leu Ala His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr
65 70 75 80

Asn Pro Ser Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg
85 90 95

Asn Gln Val Phe Leu Asn Leu Thr Asn Val Asp Thr Ala Asp Thr Ala
100 105 110

Thr Tyr Tyr Cys Ala Arg Arg Gly Gly Asp Tyr Asp Tyr Asp Glu Gly
115 120 125

Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135 140

<210> 54
<211> 131
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 54

Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
1 5 10 15

Ser Ser Ser Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val
20 25 30

Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu
35 40 45

Val His Ser Asn Gly Phe Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro
50 55 60

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser
65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
85 90 95

Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys
100 105 110

Ser Gln Ser Thr His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 55
<211> 139
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 55

Met Tyr Phe Arg Leu Ser Ser Val Phe Leu Val Leu Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Glu Val Lys Leu Val Glu Ser Glu Gly Gly Leu Val Gln
20 25 30

Pro Gly Ser Ser Met Lys Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe
35 40 45

Thr Asp Tyr Tyr Met Thr Trp Val Arg Gln Val Pro Glu Lys Gly Leu
50 55 60

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

Asp Ser Leu Lys Ser Arg Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn
85 90 95

Ile Leu Tyr Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Thr
100 105 110

Tyr Tyr Cys Ala Arg Asp Gly Asn Tyr His Phe Tyr Gly Met Asp Tyr
115 120 125

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
130 135

<210> 56

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 56

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

Leu Trp Leu Ser Gly Val Asp Gly Asp Phe Val Leu Thr Gln Ser His
20 25 30

Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val Ser Ile Thr Cys Lys
35 40 45

Ala Ser Gln Asp Val Ser Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro
50 55 60

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Trp Ala Ser Thr Arg His Thr
65 70 75 80

Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Tyr Thr
85 90 95

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

Gln Gln His Tyr Ser Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 57
<211> 141
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 57

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

Ile His Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg
20 25 30

Pro Gly Thr Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe
35 40 45

Thr Asn His Leu Ile Glu Trp Val Lys Gln Arg Pro Gly Gln Gly Leu
50 55 60

Glu Trp Ile Gly Val Ile Asn Pro Gly Ser Gly Gly Thr Lys Tyr Asn
65 70 75 80

Glu Lys Phe Lys Gly Lys Ala Thr Val Thr Ala Asp Lys Ser Ser Ser
85 90 95

Thr Val Tyr Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Phe Cys Ala Arg Ser Ser Asp Gly Tyr Tyr Glu Glu Asp Tyr Phe
115 120 125

Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135 140

<210> 58
<211> 128
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 58

Met Asp Phe Gln Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser
1 5 10 15

Val Ile Ile Ser Arg Gly Gln Ile Val Leu Thr Gln Ser Pro Ala Ile
20 25 30

Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser
35 40 45

Ser Ser Val Asn Tyr Met Gln Trp Tyr Gln Gln Lys Ser Gly Thr Ser
50 55 60

Pro Lys Arg Trp Ile Tyr Asp Thr Ser Glu Leu Ala Ser Gly Val Pro
65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile
85 90 95

Ser Ser Met Glu Ala Glu Asp Val Ala Thr Tyr Tyr Cys Gln Gln Trp
100 105 110

Ser Ser Asp Pro Ile Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
115 120 125

<210> 59
<211> 140
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 59

Met Tyr Phe Arg Leu Ser Ser Val Phe Leu Val Leu Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Glu Val Lys Leu Val Glu Ser Glu Gly Gly Leu Val Gln
20 25 30

Pro Gly Ser Ser Met Lys Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe
35 40 45

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

Glu Trp Val Ala Asn Ile Asn Tyr Asp Gly Ser Asp Thr Tyr Tyr Leu
65 70 75 80

Asp Ser Leu Lys Ser Arg Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn
85 90 95

Ile Leu Tyr Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Thr
100 105 110

Tyr Tyr Cys Val Arg Asp Val Ala Tyr Asp Asp Ser Tyr Ala Met Asp
115 120 125

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

<210> 60
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 60

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

Gly Ala Gln Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30

Ala Ser Leu Gly Gly Lys Val Thr Ile Thr Cys Lys Ala Ser Gln Asp
35 40 45

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

Arg Leu Leu Ile His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Tyr Ser Phe Ser Ile Ser
85 90 95

Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp
100 105 110

Ser Leu Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
115 120 125

<210> 61
<211> 138
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 61

Met Gly Arg Leu Thr Ser Ser Phe Leu Leu Leu Ile Val Pro Ala Tyr
1 5 10 15

Val Leu Ser Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln
20 25 30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Phe Ser Glu Phe Ser Leu
35 40 45

Ser Val Phe Gly Met Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys
50 55 60

Gly Leu Glu Trp Leu Ala His Ile Trp Trp Asp Asp Glu Lys Tyr Tyr
65 70 75 80

Asn Pro Ala Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys
85 90 95

Asn Gln Val Phe Leu Lys Ile Ala Asn Val Asp Thr Ala Asp Thr Ala
100 105 110

Thr Tyr Tyr Cys Ala Arg Ile Asp Gly Tyr Tyr Asp Phe Asp Tyr Trp
115 120 125

Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135

<210> 62

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 62

Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
1 5 10 15

Ser Ser Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val
20 25 30

Ser Leu Gly Thr Gln Ala Ser Ile Ser Cys Arg Ser Ser His Ser Ile
35 40 45

Val Gln Asp Asn Gly Asn Thr Tyr Leu Gln Trp Tyr Leu Gln Lys Pro
50 55 60

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser
65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys
100 105 110

Phe Gln Gly Ser Tyr Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 63
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 63

Met Gly Arg Leu Thr Ser Ser Phe Leu Leu Leu Ile Val Pro Ala Tyr
1 5 10 15

Val Leu Ser Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln
20 25 30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu
35 40 45

Ser Thr Ser Asn Met Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys
50 55 60

Gly Leu Glu Trp Leu Ala His Ile Trp Trp Asp Asp Val Lys Arg Tyr
65 70 75 80

Asn Pro Ala Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Ser
85 90 95

Ser Gln Val Phe Leu Lys Ile Ala Ser Val Asp Thr Ala Asp Thr Ala
100 105 110

Thr Tyr Tyr Cys Ala Arg Ser Thr Thr Leu Val Ala Phe Asp Tyr Trp
115 120 125

Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135

<210> 64
<211> 132
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 64

Met Glu Ser Gln Thr Gln Val Leu Met Ser Leu Leu Phe Trp Val Ser
1 5 10 15

Gly Thr Cys Gly Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Thr
20 25 30

Val Thr Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
65 70 75 80

Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
85 90 95

Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr
100 105 110

Tyr Cys Gln Asn Asp Tyr Ser Tyr Pro Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

<210> 65
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 65

Met Gly Arg Leu Thr Ser Ser Phe Leu Leu Leu Ile Val Pro Ala Tyr
1 5 10 15

Val Leu Ser Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln
20 25 30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu
35 40 45

Ser Thr Ser Gly Met Gly Ile Gly Trp Ile Arg Gln Pro Ser Gly Lys
50 55 60

Gly Leu Glu Trp Leu Ala His Ile Trp Trp Asp Asp Ile Lys Arg Tyr
65 70 75 80

Asn Pro Ala Leu Lys Ser Arg Leu Thr Val Ser Lys Asp Thr Ser Thr
85 90 95

Ser Gln Val Phe Leu Asn Ile Ala Ser Val Asp Thr Ala Asp Ile Ala
100 105 110

Thr Tyr Phe Cys Ala Arg Ser Thr Thr Val Val Ala Phe Asp Tyr Trp
115 120 125

Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135

<210> 66
<211> 132
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 66

Met Glu Ser Gln Thr Gln Val Leu Met Ser Leu Leu Phe Trp Val Ser
1 5 10 15

Gly Thr Cys Gly Asp Ile Leu Met Thr Gln Ser Pro Ser Ser Leu Thr
20 25 30

Val Thr Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
65 70 75 80

Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Thr Gly Ser Gly Thr Asp
85 90 95

Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Ile Tyr
100 105 110

Tyr Cys Gln Asn Asp Tyr Asp Tyr Pro Thr Phe Gly Gly Gly Thr Lys
115 120 125

Leu Glu Ile Lys
130

<210> 67
<211> 141
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 67

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

Val Leu Ser Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln
20 25 30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu
35 40 45

Ser Thr Tyr Gly Met Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys
50 55 60

Gly Leu Glu Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr
65 70 75 80

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

Asn Gln Ala Phe Leu Lys Ile Asn Asn Val Asp Thr Ala Asp Thr Ala
100 105 110

Thr Tyr Tyr Cys Ala Arg Ser Glu Leu Ile Met Pro Tyr Val Pro Phe
115 120 125

Asp Tyr Trp Gly Gln Gly Val Arg Val Thr Val Ser Ser
130 135 140

<210> 68
<211> 129
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 68

Met Asp Met Arg Ala His Thr Gln Phe Leu Gly Phe Leu Leu Leu Trp
1 5 10 15

Phe Pro Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
20 25 30

Met Ser Ala Ser Leu Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser
35 40 45

Gln Asp Ile Asp Asn His Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys
50 55 60

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

Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Ser Asp Tyr Ser Leu Thr
85 90 95

Ile Ser Ser Leu Glu Ser Glu Asp Met Ala Asp Tyr His Cys Leu Gln
100 105 110

Phe Lys Gln Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
115 120 125

Lys

<210> 69

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 69

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

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

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

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 70
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 70

Asp Ile Lys Met Asn Gln Ser Pro Ser Ser Met Ser Ala Ser Leu Gly
1 5 10 15

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

Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Arg Pro Leu Ile
35 40 45

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

Arg Arg Ser Glu Ser Asn Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
65 70 75 80

Glu Asp Met Ala Asp Tyr His Cys Leu Gln Phe Lys Gln Tyr Pro Phe
85 90 95

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

<210> 71
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 71

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

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

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

Ile Gly Glu Ile Tyr His Ser Gly Gly Thr Asn Tyr Asn Pro Ser Leu
50 55 60

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 72
<211> 107

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 72

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

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

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

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

Arg Arg Ser Glu Ser Lys Tyr Ser Leu Thr Ile Ser Asn Leu Glu Ser
65 70 75 80

Glu Asp Met Ala Asp Tyr His Cys Leu Gln Phe Lys Gln Tyr Pro Tyr
85 90 95

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

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

<220>
<223> Synthetic

<400> 73

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

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

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

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 74
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 74

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

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

Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Arg Pro Met Ile
35 40 45

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

Ser Thr Ser Gly Ser Asp Tyr Ser Leu Thr Ile Gly Ser Leu Glu Ser
65 70 75 80

Glu Asp Met Ala Asp Tyr His Arg Leu Gln Phe Lys Gln Tyr Pro Phe
85 90 95

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

<210> 75
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 75

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

Thr Leu Ser Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Pro Tyr
20 25 30

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

Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Val Arg Ser Glu Leu Val Met Pro Tyr Val Pro Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Val Met Val Thr Val Ser Ser
115 120

<210> 76
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 76

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

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

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

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

Arg Arg Ser Glu Ser Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
65 70 75 80

Glu Asp Met Ala Asp Tyr His Cys Leu Gln Phe Lys Gln Tyr Pro Tyr
85 90 95

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

<210> 77

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 77

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

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

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

Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser
50 55 60

Leu Ile Asn Arg Leu Thr Ile Ser Lys Asn Thr Ser Asn Asn Gln Ala
65 70 75 80

Phe Leu Lys Ile Thr Asn Val Asp Ala Pro Asp Thr Ala Thr Tyr Tyr
85 90 95

Cys Ala Arg Ser Glu Leu Val Met Pro Tyr Val Pro Phe Asp Phe Trp
100 105 110

Gly Gln Gly Ile Met Val Thr Val Ser Ser
115 120

<210> 78
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 78

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

Asp Arg Ile Thr Met Thr Cys Gln Ala Ser Gln Asp Ile Gly Ile Glu
20 25 30

Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Trp Pro Val Ile
35 40 45

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

Ser Arg Ser Gly Ser His Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
65 70 75 80

Glu Asp Met Ala Asp Tyr His Cys Leu Gln Tyr Lys Gln Tyr Pro Phe
85 90 95

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

<210> 79
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 79

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

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

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

Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser
50 55 60

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

Phe Leu Lys Ile Thr Asn Val Asp Thr Ala Asp Thr Ala Thr Tyr Tyr
85 90 95

Cys Ala Arg Ser Glu Leu Ile Met Pro Tyr Val Pro Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Val Arg Val Thr Val Ser Ser
115 120

<210> 80
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 80

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

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

Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Arg Pro Met Ile
35 40 45

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

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

Glu Asp Met Ala Asp Tyr His Cys Leu Gln Phe Lys Gln Tyr Pro Phe
85 90 95

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

<210> 81

<211> 141

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 81

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

Val Leu Ser Gln Val Thr Leu Lys Glu Ser Gly Pro Glu Ile Leu Gln
20 25 30

Pro Ser Gln Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu
35 40 45

Ser Pro Tyr Gly Met Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys
50 55 60

Gly Leu Glu Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr
65 70 75 80

Asn Pro Ser Leu Ile Asn Arg Leu Thr Ile Ser Lys Asp Thr Ser Asn
85 90 95

Asn Gln Ala Phe Leu Lys Ile Thr Asn Val Asp Thr Thr Asp Ser Ala
100 105 110

Thr Tyr Tyr Cys Val Arg Ser Glu Leu Val Met Pro Tyr Val Pro Phe
115 120 125

Asp Tyr Trp Gly Gln Gly Val Met Val Thr Val Ser Ser
130 135 140

<210> 82
<211> 129
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 82

Met Asp Met Arg Ala His Thr Gln Phe Leu Gly Phe Leu Leu Leu Trp
1 5 10 15

Phe Pro Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
20 25 30

Met Ser Ala Ser Leu Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser
35 40 45

Gln Asp Ile Glu Asn Asp Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys
50 55 60

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

Pro Ser Arg Phe Ser Gly Arg Arg Ser Glu Ser Asn Tyr Ala Leu Thr
85 90 95

Ile Ser Ser Leu Glu Ser Glu Asp Met Ala Asp Tyr His Cys Leu Gln
100 105 110

Phe Lys Gln Tyr Pro Tyr Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
115 120 125

Lys

<210> 83
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 83

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

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

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

Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Ser Asn Pro Ser
50 55 60

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

Phe Leu Thr Ile Thr Asn Val Asp Thr Ala Asp Thr Ala Thr Tyr Tyr
85 90 95

Cys Ala Arg Ser Glu Leu Val Met Pro Tyr Val Pro Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Val Arg Val Thr Val Ser Ser
115 120

<210> 84
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 84

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

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

Leu Ile Trp Phe Gln Gln Lys Pro Gly Arg Ser Pro Arg Pro Met Ile
35 40 45

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

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

Glu Asp Met Ala Asp Tyr His Cys Leu Gln Phe Lys Gln Tyr Pro Phe
85 90 95

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

<210> 85
<211> 141
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 85

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

Val Leu Ser Gln Val Thr Leu Lys Glu Ser Gly Pro Glu Ile Leu Gln
20 25 30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu
35 40 45

Ser Pro Tyr Gly Met Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys
50 55 60

Gly Leu Glu Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr
65 70 75 80

Asn Pro Ser Leu Ile Asn Arg Leu Thr Ile Ser Lys Asp Thr Ser Asn
85 90 95

Asn Gln Ala Phe Leu Lys Ile Thr Asn Val Asp Thr Thr Asp Ser Ala
100 105 110

Thr Tyr Tyr Cys Val Arg Ser Glu Leu Val Met Pro Tyr Val Pro Phe
115 120 125

Asp Tyr Trp Gly Gln Gly Val Met Val Thr Val Ser Ser
130 135 140

<210> 86

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 86

Met Asp Met Arg Ala His Thr Gln Phe Leu Gly Phe Leu Leu Leu Trp
1 5 10 15

Phe Pro Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
20 25 30

Met Ser Ala Ser Leu Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser
35 40 45

Gln Asp Ile Glu Asn Asp Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys
50 55 60

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

Pro Ser Arg Phe Ser Gly Arg Arg Ser Glu Ser Asn Tyr Ser Leu Thr
85 90 95

Ile Ser Ser Leu Glu Ser Glu Asp Met Ala Asp Tyr His Cys Leu Gln
100 105 110

Phe Lys Gln Tyr Pro Tyr Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
115 120 125

Lys

<210> 87
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 87

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

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

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

Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser
50 55 60

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

Phe Leu Lys Ile Thr Asn Val Asp Thr Ala Asp Thr Ala Thr Tyr Tyr
85 90 95

Cys Ala Arg Ser Glu Ile Val Met Pro Tyr Val Pro Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Val Met Val Thr Val Ser Ser
115 120

<210> 88
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 88

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

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

Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Arg Pro Met Ile
35 40 45

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

Ser Gly Ser Gly Ser Val Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
65 70 75 80

Glu Asp Met Ala Asp Tyr His Cys Leu Gln Phe Lys Gln Tyr Pro Phe
85 90 95

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

<210> 89
<211> 122

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 89

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

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

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

Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser
50 55 60

Leu Ile Asn Arg Leu Thr Ile Ser Lys Asn Thr Ser Asn Asn Gln Ala
65 70 75 80

Phe Leu Lys Ile Thr Asn Val Asp Ala Pro Asp Thr Ala Thr Tyr Tyr
85 90 95

Cys Ala Arg Ser Glu Leu Val Met Pro Tyr Val Pro Phe Asp Phe Trp
100 105 110

Gly Gln Gly Ile Met Val Thr Val Ser Ser
115 120

<210> 90
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 90

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

Asp Arg Ile Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Gly Ile Asp
20 25 30

Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Trp Pro Val Ile
35 40 45

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

Ser Arg Ser Gly Ser His Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
65 70 75 80

Glu Asp Met Ala Asp Tyr His Cys Leu Gln Tyr Lys Gln Tyr Pro Phe
85 90 95

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

<210> 91
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 91

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

Thr Leu Ser Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Pro Tyr
20 25 30

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

Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Val Arg Ser Glu Leu Val Met Pro Tyr Val Pro Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Val Met Val Thr Val Ser Ser
115 120

<210> 92
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 92

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

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

Leu Ile Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Arg Pro Leu Ile
35 40 45

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

Arg Arg Ser Glu Ser Asn Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
65 70 75 80

Glu Asp Met Ala Asp Tyr His Cys Leu Gln Phe Lys Gln Tyr Pro Tyr
85 90 95

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

<210> 93
<211> 146
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 93

Met Asp Ile Arg Leu Ser Leu Val Phe Leu Val Leu Phe Ile Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Leu
20 25 30

Pro Gly Arg Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Asp Tyr Ala Met Ala Trp Val Arg Gln Ala Pro Lys Lys Gly Leu
50 55 60

Glu Trp Val Ala Thr Val Phe Tyr Asp Gly Ser Asp Thr Phe Tyr Arg
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser
85 90 95

Thr Leu Tyr Leu Gln Met Asp Ser Leu Arg Ser Glu Asp Thr Ala Thr
100 105 110

Tyr Tyr Cys Ala Arg Glu Gly Asp Tyr Tyr Ser Arg His Val Tyr Val
115 120 125

Gly Tyr Asn Trp Phe Pro His Trp Gly Gln Gly Thr Leu Val Thr Val
130 135 140

Ser Ser
145

<210> 94

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 94

Met Gly Val Pro Thr His Leu Leu Gly Leu Leu Leu Leu Trp Ile Thr
1 5 10 15

His Ala Met Cys Asp Ile Arg Met Thr Gln Ser Pro Ala Ser Leu Ser
20 25 30

Ala Ser Leu Gly Glu Thr Val Asn Ile Glu Cys Leu Thr Ser Glu Asp
35 40 45

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

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

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn
85 90 95

Ser Leu Gln Ser Glu Asp Val Ala Thr Tyr Phe Cys Gln Gln Tyr Asn
100 105 110

Ser Tyr Pro Leu Thr Phe Gly Ser Gly Thr Glu Leu Glu Ile Lys
115 120 125

<210> 95

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 95

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

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

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

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

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

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

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

Thr Val Ser Ser
115

<210> 96
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 96

Asp Ile Val Met Thr Gln Phe Gln Lys Phe Met Ser Thr Thr Val Gly
1 5 10 15

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

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

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

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

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

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

<210> 97
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 97

Asp Tyr Tyr Met Asn
1 5

<210> 98
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 98

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

Gly

<210> 99
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 99

Asp Asp Tyr Asp Ala Gly Tyr
1 5

<210> 100
<211> 11

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 100

Lys Ala Ser Gln Asn Val Asp Thr Ala Val Ala
1 5 10

<210> 101
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 101

Ser Ala Ser His Arg Tyr Thr
1 5

<210> 102
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 102

Gln Gln Tyr Thr Asp Phe Pro Leu Thr
1 5

<210> 103
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 103

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 Asp Tyr
20 25 30

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

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

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

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

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

Thr Val Ser Ser
115

<210> 104
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 104

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 Asp Tyr
20 25 30

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

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

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

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

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

Thr Val Ser Ser
115

<210> 105
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 105

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 Asp Tyr
20 25 30

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

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

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

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

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

Thr Val Ser Ser
115

<210> 106
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 106

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 Asp Tyr
20 25 30

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

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

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

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

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

Thr Val Ser Ser
115

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

<220>
<223> Synthetic

<400> 107

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

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

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

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

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

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

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

<210> 108

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 108

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

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

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

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

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

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

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

<210> 109
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 109

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

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

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

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

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

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

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

<210> 110
<211> 123

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 110

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

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

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

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

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

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

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

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

<210> 111
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 111

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

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

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

His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

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

<210> 112
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 112

Ser Tyr Ala Met Ser
1 5

<210> 113
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 113

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

Gly

<210> 114
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 114

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

Gly

<210> 115
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 115

Asp Tyr Tyr Gly Ser Gly Tyr Glu Asp Ser Pro Met Asp Tyr
1 5 10

<210> 116
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 116

Asp Tyr Tyr Gly Ser Gly Tyr Glu Glu Ser Pro Met Asp Tyr
1 5 10

<210> 117
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 117

Lys Ala Ser Gln Asp Ile Asn Lys Tyr Ile Ala
1 5 10

<210> 118

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 118

Tyr Thr Ser Thr Leu Gln Pro
1 5

<210> 119

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 119

Leu Gln Tyr Asp Asn Leu Tyr Thr
1 5

<210> 120

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 120

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 Ser Tyr
20 25 30

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

Ala Thr Ile Ser Asp Gly Gly Ser Asp Ala Tyr Tyr Pro Asp Asn 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 Asp Tyr Tyr Gly Ser Gly Tyr Glu Asp Ser Pro Met Asp Tyr
100 105 110

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

<210> 121
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 121

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

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

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

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

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

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

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

<210> 122
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 122

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

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

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

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

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

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

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

<210> 123
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 123

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

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

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

His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

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

<210> 124

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 124

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

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

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

His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

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

<210> 125
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 125

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

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

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

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

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

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

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

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 126
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 126

Asp Ile Val Met Thr Gln Ser His Lys Ser Met Ser Thr Ser Val Gly
1 5 10 15

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

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

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

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

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

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

<210> 127
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 127

Arg Tyr Trp Met Ser
1 5

<210> 128
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 128

Glu	Ile	Asn	Pro	Asp	Ser	Ser	Thr	Ile	Asn	Tyr	Ala	Pro	Ser	Leu	Lys
1				5					10					15	

Asp

<210> 129
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 129

Glu	Ile	Asn	Pro	Glu	Ser	Ser	Thr	Ile	Asn	Tyr	Ala	Pro	Ser	Leu	Lys
1				5					10					15	

Asp

<210> 130
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 130

Gln	Asp	Asp	Tyr	Glu	Tyr	Tyr	Ala	Met	Asp	Tyr
1				5					10	

<210> 131
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 131

Lys Ala Ser Gln Asp Val Asn Thr Gly Val Ala
1 5 10

<210> 132

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 132

Ser Ala Ser Tyr Arg Tyr Thr
1 5

<210> 133

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 133

Gln Gln Tyr Tyr Ser Thr Pro Leu Thr
1 5

<210> 134

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 134

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

Lys Asp 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 Gln Asp Asp Tyr Glu Tyr Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 135
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 135

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

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

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

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

Lys Asp 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 Gln Asp Asp Tyr Glu Tyr Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 136
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 136

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

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

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

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

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 137
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 137

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

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

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

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

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 138
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 138

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

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

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

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

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

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

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

<210> 139
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 139

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

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

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

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

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

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

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

<210> 140
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 140

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

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

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

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

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

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

Lys Thr Glu Glu Asp Tyr Asp Gly Ser Tyr Val Met Asp Ala Trp Gly
100 105 110

Gln Gly Ala Ser Val Ile Val Ser Ser
115 120

<210> 141
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 141

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

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

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

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

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

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

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

<210> 142
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 142

Asp Tyr Tyr Met Ala
1 5

<210> 143
<211> 17

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 143

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

Gly

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

<220>
<223> Synthetic

<400> 144

Glu	Glu	Asp	Tyr	Asp	Gly	Ser	Tyr	Val	Met	Asp	Ala
1				5					10		

<210> 145
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 145

Lys	Ala	Ser	Gln	Asn	Ile	Asn	Lys	Glu	Leu	Thr
1				5					10	

<210> 146
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 146

Asn Thr Asn Ile Leu Gln Thr
1 5

<210> 147
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 147

Leu Gln Gln Ser Ser Leu Tyr Thr
1 5

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

<220>
<223> Synthetic

<400> 148

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

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

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

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

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

<210> 149
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 149

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

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

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

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

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

<210> 150
<211> 123
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 150

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 Val Ser Gly Phe Thr Phe Ser Asp Tyr
20 25 30

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

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

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

<210> 151

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 151

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 Val Ser Gly Phe Thr Phe Ser Asp Tyr
20 25 30

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

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

Lys Gly Arg Phe Thr Val 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 Thr Glu Glu Asp Tyr Asp Gly Ser Tyr Val Met Asp Ala Trp Gly
100 105 110

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

<210> 152
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 152

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

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

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

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

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

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

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

<210> 153
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 153

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

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

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

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

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

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

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

<210> 154
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 154

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

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

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

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

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

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

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

<210> 155

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 155

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

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

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

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

Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

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

<210> 156
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 156

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

Lys Asp 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 Gln Asp Asp Tyr Glu Tyr Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 157
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 157

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 Ser Tyr
20 25 30

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

Ala Thr Ile Ser Glu Gly Gly Ser Asp Ala Tyr Tyr Pro Asp Asn 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 Asp Tyr Tyr Gly Ser Gly Tyr Glu Glu Ser Pro Met Asp Tyr
100 105 110

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

<210> 158
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 158

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

Ala Glu Ile Asn Pro Glu Ala Ser Ser Ile Asn Tyr Ala Pro Ser Leu
50 55 60

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 159
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 159

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

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

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

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

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

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

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

<210> 160
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 160

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 161
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 161

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

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

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

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

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

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

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

<210> 162
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 162

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 163
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 163

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

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

Val Asp Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

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

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

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

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

<210> 164
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 164

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 165
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 165

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

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

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

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

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

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

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

<210> 166
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 166

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 167
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 167

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

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

Val Ser Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

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

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

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

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

<210> 168
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 168

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 169
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 169

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

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

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

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

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

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

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

<210> 170
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 170

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

Lys Asp 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 Gln Asp Asp Tyr Ser Val Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 171
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 171

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

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

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

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

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

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

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

<210> 172
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 172

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

Lys Asp 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 Gln Asp Asp Tyr Asp Lys Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 173
<211> 107

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 173

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

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

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

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

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

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

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

<210> 174
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 174

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

Lys Asp 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 Gln Asp Asp Tyr Glu Tyr Tyr Thr Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 175
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 175

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

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

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

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

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

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

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

<210> 176
<211> 120
<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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

Lys Asp 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 Gln Glu Asp Tyr Glu Tyr Tyr Ala Leu Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 177
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 177

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

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

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

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

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

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

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

<210> 178

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 178

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 179
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 179

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

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

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

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

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

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

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

<210> 180
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 180

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

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

<220>

<223> Synthetic

<400> 181

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

Lys Asp 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 Gln Asp Asp Tyr Glu Thr Tyr Thr Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 182

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 182

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

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

<220>
<223> Synthetic

<400> 183

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

Lys Asp 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 Gln Asp Asp Tyr Glu Tyr Tyr Thr Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

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

<220>
<223> Synthetic

<400> 184

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

Ala Glu Ile Asn Pro Glu Ser Ser Ser Ile Asn Tyr Ala Pro Ser Leu
50 55 60

Lys Asp 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 Gln Asp Asp Tyr Glu Tyr Tyr Thr Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 185
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 185

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

Lys Asp 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 Gln Asp Asp Tyr Ser Tyr Tyr Thr Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 186
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 186

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 187
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 187

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 188
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 188

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

Ala Glu Ile Asn Pro Glu Ala Ser Ser Ile Asn Tyr Ala Pro Ser Leu
50 55 60

Lys Asp 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 Gln Asp Asp Tyr Glu Tyr Tyr Thr Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 189
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 189

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

Ala Glu Ile Asn Pro Glu Ser Ser Ser Ile Asn Tyr Ala Pro Ser Leu
50 55 60

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 190
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 190

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 Ile Asp Phe Ser Arg Tyr
20 25 30

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

Ala Glu Ile Asn Pro Glu Ala Ser Ser Ile Asn Tyr Ala Pro Ser Leu
50 55 60

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 191

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 191

Gln Asp Asp Tyr Asp Tyr Tyr Ala Met Asp Tyr
1 5 10

<210> 192

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 192

Lys Ala Ser Gln Asp Val Ser Thr Gly Val Ala
1 5 10

<210> 193

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 193

His Gln Tyr Tyr Thr Ile Pro Leu Thr
1 5

<210> 194

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 194

Glu Tyr Ile Met His
1 5

<210> 195

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 195

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

Gly

<210> 196
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 196

Gly Val Leu Asp Tyr
1 5

<210> 197
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 197

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

<210> 198
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 198

Leu Val Ser Lys Leu Asp Ser
1 5

<210> 199
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 199

Trp Gln Gly Thr His Phe Pro Phe Thr
1 5

<210> 200
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 200

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

Gly

<210> 201
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 201

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

<210> 202
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 202

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

Gly

<210> 203
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 203

Glu Glu Asp Tyr Ser Gly Ser Phe Pro Asp Tyr
1 5 10

<210> 204
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 204

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

<210> 205
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 205

Asp Thr Asn Asn Leu Gln Ala
1 5

<210> 206
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 206

Leu Gln His Asn Ser Leu Tyr Thr
1 5

<210> 207
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 207

Asp Tyr Ala Trp Asn
1 5

<210> 208
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 208

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

<210> 209
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 209

Gly His Phe Asp Tyr
1 5

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

<220>
<223> Synthetic

<400> 210

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

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

<220>
<223> Synthetic

<400> 211

Trp Gln Gly Thr His Phe Pro Tyr Thr
1 5

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

<220>
<223> Synthetic

<400> 212

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

Gly

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

<220>
<223> Synthetic

<400> 213

Gly Val Met Asp Tyr
1 5

<210> 214
<211> 16
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 214

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

<210> 215

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 215

Gln Val Ser Lys Leu Asp Ser
1 5

<210> 216

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 216

Thr Ser Ala Met Val Val Ser
1 5

<210> 217

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 217

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

<210> 218

<211> 12

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 218

Met Ser Ser Ala Asp Ser His Ser Val Leu Asp Ala
1 5 10

<210> 219
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 219

Lys Ala Ser Gln Asn Ile His Asn Tyr Leu Asn
1 5 10

<210> 220
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 220

Asn Thr Asn Asn Leu Gln Thr
1 5

<210> 221
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 221

Leu Gln His Ser Ser Ser Leu Thr
1 5

<210> 222
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 222

Asp Phe Tyr Ile Asn
1 5

<210> 223
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 223

Phe Met Arg Asn Lys Ala Asn Gly Tyr Thr Thr Glu Tyr Asn Pro Ser
1 5 10 15

Val Lys Gly

<210> 224
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 224

Ser Arg Tyr Asn Ala Asp Asp Tyr Tyr Val Gly Val Met Asp Val
1 5 10 15

<210> 225
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 225

Leu Ala Ser Glu Asp Ile Tyr Asn Asn Leu Ala
1 5 10

<210> 226

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 226

Tyr Thr Asn Ser Leu Gln Asp
1 5

<210> 227

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 227

Leu Gln Asp Ser Glu Tyr Pro Trp Thr
1 5

<210> 228

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 228

Ser Asp Tyr Ala Trp Asn
1 5

<210> 229

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 229

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

<210> 230

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 230

Leu	Val	Ser	Asn	Leu	Asp	Ser
1				5		

<210> 231

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 231

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

<210> 232

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 232

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

Gly

<210> 233
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 233

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

<210> 234
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 234

Lys Ala Ser Gln Asp Ile Asn Lys Tyr Ile Thr
1 5 10

<210> 235
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 235

Ser Asp Tyr Ala Trp Ser
1 5

<210> 236
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 236

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

<210> 237
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 237

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

<210> 238
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 238

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

Asp

<210> 239
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 239

Leu	Ser	Trp	Ser	Phe	Phe	Ala	Met	Asp	Tyr
1				5					10

<210> 240
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 240

Lys Ala Ser Gln Asp Val Ser Ser Gly Val Ala
1 5 10

<210> 241

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 241

Ser Ala Ser His Arg His Thr
1 5

<210> 242

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 242

Gln Gln Tyr Tyr Asn Thr Pro Trp Thr
1 5

<210> 243

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 243

Thr Tyr Trp Ile Glu
1 5

<210> 244

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 244

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

Asp

<210> 245

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 245

Asp Tyr Tyr Gly Tyr Tyr Phe Asp Tyr
1 5

<210> 246

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 246

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

<210> 247

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 247

Gln Gln His Tyr Ser Ser Pro Arg Thr
1 5

<210> 248
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 248

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

Gly

<210> 249
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 249

Asp Tyr Tyr Gly Phe Tyr Phe Asp Tyr
1 5

<210> 250
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 250

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

<210> 251
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 251

Ser Thr Ser Tyr Arg Tyr Thr
1 5

<210> 252

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

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Gln Gln His Tyr Thr Thr Pro Arg Thr
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Asp Ile Asn Pro Asn Asn Gly Asp Thr Thr Tyr Asn Gln Lys Phe Lys
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Gly

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Tyr Asp Glu Asp His Tyr Ala Met Asp Tyr
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Gln Gln Tyr Tyr Thr Thr Pro Trp Thr
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Asp Ile Asn Pro Asn Asn Gly Asp Ile Ile Tyr Asn Gln Lys Phe Lys
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Gly

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

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Gly Ser Thr Val Val Ala Pro Gly Asp Tyr Phe Ala Met Asp Tyr
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Arg	Ala	Ser	Glu	Ser	Val	Asp	Asn	Tyr	Gly	Ile	Ser	Phe	Met	His
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Arg	Ala	Ser	Asn	Leu	Asp	Ser
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Gln	Gln	Ser	Asn	Lys	Asp	Pro	Trp	Thr
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Val	Phe	Gly	Met	Gly	Val	Gly
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His	Ile	Trp	Trp	Asp	Asp	Glu	Lys	Tyr	Tyr	Asn	Pro	Ala	Leu	Lys	Ser
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Ile	Asp	Gly	Tyr	Tyr	Asp	Phe	Asp	Tyr
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Arg	Ser	Ser	His	Ser	Ile	Val	Gln	Asp	Asn	Gly	Asn	Thr	Tyr	Leu	Gln
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Lys	Val	Ser	Asn	Arg	Phe	Ser
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Phe Gln Gly Ser Tyr Val Pro Tyr Thr
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Thr Ser Gly Met His Val Gly
1 5

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<400> 272

His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Asn Pro Ser Leu Lys Ser
1 5 10 15

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Arg Gly Gly Asp Tyr Asp Tyr Asp Glu Gly Phe Asp Tyr
1 5 10

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<400> 274

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

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<400> 275

Ser Gln Ser Thr His Val Pro Tyr Thr
1 5

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<400> 276

Thr Asp Tyr Tyr Met Thr
1 5

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

Ser

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Asp Gly Asn Tyr His Phe Tyr Gly Met Asp Tyr
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Trp Ala Ser Thr Arg His Thr
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Gln Gln His Tyr Ser Thr Pro Trp Thr
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<400> 281

Asn His Leu Ile Glu
1 5

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<400> 282

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

Gly

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<400> 283

Ser Ser Asp Gly Tyr Tyr Glu Glu Asp Tyr Phe Asp Tyr
1 5 10

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Ser Ala Ser Ser Ser Val Asn Tyr Met Gln
1 5 10

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Asp Thr Ser Glu Leu Ala Ser
1 5

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Gln Gln Trp Ser Ser Asp Pro Ile Thr
1 5

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<400> 287

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

Ser

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<400> 288

Asp Val Ala Tyr Asp Asp Ser Tyr Ala Met Asp Tyr
1 5 10

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Leu Gln Tyr Asp Ser Leu Tyr Thr
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<210> 290

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Thr Ser Asn Met Gly Val Gly
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His Ile Trp Trp Asp Asp Val Lys Arg Tyr Asn Pro Ala Leu Lys Ser
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<400> 292

Ser Thr Thr Leu Val Ala Phe Asp Tyr
1 5

<210> 293
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<400> 293

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

Thr

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<400> 294

Trp Ala Ser Thr Arg Glu Ser
1 5

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Gln Asn Asp Tyr Ser Tyr Pro Thr
1 5

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<400> 296

Thr Ser Gly Met Gly Ile Gly
1 5

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His Ile Trp Trp Asp Asp Ile Lys Arg Tyr Asn Pro Ala Leu Lys Ser
1 5 10 15

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<400> 298

Ser Thr Thr Val Val Ala Phe Asp Tyr
1 5

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Gln Asn Asp Tyr Asp Tyr Pro Thr
1 5

<210> 300

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<400> 300

Thr Tyr Gly Met Gly Val Gly
1 5

<210> 301

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<400> 301

Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser Leu Gln Asn
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<400> 302

Ser Glu Leu Ile Met Pro Tyr Val Pro Phe Asp Tyr
1 5 10

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<400> 303

Gln Ala Ser Gln Asp Ile Asp Asn His Leu Ile
1 5 10

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<400> 304

Tyr Ala Thr Asn Leu Ala Asn
1 5

<210> 305

<211> 9

<212> PRT

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<223> Synthetic

<400> 305

Leu Gln Phe Lys Gln Tyr Pro Phe Thr
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<400> 306

Ser Ser Tyr Trp Trp Thr
1 5

<210> 307

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<223> Synthetic

<400> 307

Ile Tyr His Ser Gly Arg Pro
1 5

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<400> 308

Thr Ala Ala Val Ser Tyr Trp Tyr Phe Asp Leu
1 5 10

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<400> 309

Gln Ala Ser Gln Asp Ile Gly Asn Asp Leu Ile
1 5 10

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<400> 310

Tyr Ala Ser Asn Leu Ala Asn
1 5

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<400> 311

Ser Arg Asn Trp Trp Gly
1 5

<210> 312
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<400> 312

Ile Tyr His Ser Gly Gly Thr
1 5

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<400> 313

Glu Phe Gly Asp Ser Val Trp Tyr Phe Asp Leu
1 5 10

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<400> 314

Gln Ala Ser Gln Asp Ile Gly Asn Asp Leu Val
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<400> 315

Tyr Ala Thr Asn Leu Ala Asp
1 5

<210> 316
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<400> 316

Leu Gln Phe Lys Gln Tyr Pro Tyr Thr
1 5

<210> 317
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<400> 317

Ser Ser Tyr Trp Trp Ile
1 5

<210> 318
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<400> 318

Glu Ala Gly Asp Ser Val Trp Tyr Phe Asp Leu
1 5 10

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<400> 319

Gln Ala Ser Gln Asp Ile Gly Asn Glu Leu Ile
1 5 10

<210> 320
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<400> 320

Tyr Ala Thr Ser Leu Ala Asp
1 5

<210> 321
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<400> 321

Pro Tyr Gly Met Gly Val Gly
1 5

<210> 322
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<400> 322

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

<210> 323
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<400> 323

Ser Glu Leu Val Met Pro Tyr Val Pro Phe Asp Tyr
1 5 10

<210> 324
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<400> 324

Gln Ala Ser Gln Asp Ile Glu Asn Asp Leu Val
1 5 10

<210> 325
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<400> 325

Ser Glu Leu Val Met Pro Tyr Val Pro Phe Asp Phe
1 5 10

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<400> 326

Gln Ala Ser Gln Asp Ile Gly Ile Glu Leu Ile
1 5 10

<210> 327

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<400> 327

Tyr Thr Ala Asn Leu Ala Ser
1 5

<210> 328

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<400> 328

Leu Gln Tyr Lys Gln Tyr Pro Phe Thr
1 5

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<400> 329

Gln Ala Ser Gln Asp Ile Glu Asn Asp Leu Ile
1 5 10

<210> 330

<211> 16

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<400> 330

Asn	Ile	Trp	Trp	Asp	Asp	Asp	Lys	Tyr	Ser	Asn	Pro	Ser	Leu	Gln	Ser
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<210> 331

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<400> 331

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

<210> 332

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<220>

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<400> 332

Ser	Glu	Ile	Val	Met	Pro	Tyr	Val	Pro	Phe	Asp	Tyr
1				5					10		

<210> 333

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<220>

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<400> 333

Gln	Ala	Ser	Gln	Asp	Ile	Gly	Ile	Asp	Leu	Ile
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<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 334

Asp Tyr Ala Met Ala
1 5

<210> 335

<211> 17

<212> PRT

<213> Artificial Sequence

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<400> 335

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

Gly

<210> 336

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<212> PRT

<213> Artificial Sequence

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<400> 336

Glu Gly Asp Tyr Tyr Ser Arg His Val Tyr Val Gly Tyr Asn Trp Phe
1 5 10 15

Pro His

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<400> 337

Leu Thr Ser Glu Asp Ile Asn Ser Glu Leu Ala
1 5 10

<210> 338

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<400> 338

Asn Ala Asn Ser Leu Gln Asp
1 5

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Gln Gln Tyr Asn Ser Tyr Pro Leu Thr
1 5

<210> 340

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<400> 340

Glu Ile Asn Pro Glu Ala Ser Ser Ile Asn Tyr Ala Pro Ser Leu Lys
1 5 10 15

Asp

<210> 341

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<400> 341

Gln	Asp	Asp	Tyr	Ser	His	Tyr	Ala	Met	Asp	Tyr
1				5					10	

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<400> 342

Lys	Ala	Ser	Gln	Asp	Val	Asn	Thr	Gly	Val	Ser
1				5					10	

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<400> 343

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

Asp

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<400> 344

Gln Asp Asp Tyr Thr Thr Tyr Ala Met Asp Tyr
1 5 10

<210> 345
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<213> Artificial Sequence

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<400> 345

Gln Asp Asp Tyr Leu Thr Tyr Ala Met Asp Tyr
1 5 10

<210> 346
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<213> Artificial Sequence

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<400> 346

Lys Ala Ser Gln Asp Val Asn Thr Ala Val Asp
1 5 10

<210> 347
<211> 17
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<220>
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<400> 347

Glu Ile Asn Pro Glu Thr Thr Ile Ile Asn Tyr Ala Pro Ser Leu Lys
1 5 10 15

Asp

<210> 348
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<400> 348

Gln Asp Asp Tyr Arg His Tyr Ala Met Asp Tyr
1 5 10

<210> 349

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<400> 349

Glu Ile Asn Pro Glu Ser Thr Leu Ile Asn Tyr Ala Pro Ser Leu Lys
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Asp

<210> 350

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<400> 350

Gln Asp Asp Tyr Arg Asn Tyr Ala Met Asp Tyr
1 5 10

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<223> Synthetic

<400> 351

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

Asp

<210> 352
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Gln	Asp	Asp	Tyr	Trp	Thr	Tyr	Ala	Met	Asp	Tyr
1				5					10	

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Lys	Ala	Ser	Gln	Asp	Val	Asn	Thr	Ala	Val	Ser
1				5					10	

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

Asp

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<400> 355

Gln	Asp	Asp	Tyr	Ser	Val	Tyr	Ala	Met	Asp	Tyr
1				5					10	

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<400> 356

Lys	Ala	Ser	Gln	Asp	Val	Asn	Thr	Gly	Val	Thr
1				5					10	

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<400> 357

Glu	Ile	Asn	Pro	Glu	Arg	Asn	Tyr	Ile	Asn	Tyr	Ala	Pro	Ser	Leu	Lys
1				5					10					15	

Asp

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<400> 358

Gln Asp Asp Tyr Asp Lys Tyr Ala Met Asp Tyr
1 5 10

<210> 359
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Gln Asp Asp Tyr Glu Tyr Tyr Thr Met Asp Tyr
1 5 10

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<400> 360

Lys Val Ser Gln Asp Val Asn Thr Gly Val Ala
1 5 10

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<400> 361

Gln Gln Tyr Trp Ser Thr Pro Leu Thr
1 5

<210> 362
<211> 11
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<400> 362

Gln Glu Asp Tyr Glu Tyr Tyr Ala Leu Asp Tyr
1 5 10

<210> 363

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<223> Synthetic

<400> 363

Lys Ala Ser Gln Asp Val Asn Thr Gly Val Tyr
1 5 10

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<400> 364

Gln Gln Gly Tyr Ser Thr Pro Leu Thr
1 5

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Gln Asp Asp Thr Arg Tyr Tyr Ala Met Asp Tyr
1 5 10

<210> 366

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<400> 366

Gln	Asp	Asp	Tyr	Leu	Tyr	Tyr	Thr	Met	Asp	Tyr
1				5					10	

<210> 367

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<213> Artificial Sequence

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Gln	Asp	Asp	Tyr	Glu	Thr	Tyr	Thr	Met	Asp	Tyr
1				5					10	

<210> 368

<211> 11

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<223> Synthetic

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Gln	Asp	Asp	Tyr	Leu	Thr	Tyr	Thr	Met	Asp	Tyr
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Asp

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Glu Ile Asn Pro Glu Ser Ser Ser Ile Asn Tyr Ala Pro Ser Leu Lys
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Asp

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Gln Asp Asp Tyr Ser Tyr Tyr Thr Met Asp Tyr
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Gln Asp Asp Tyr Glu His Tyr Thr Met Asp Tyr
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Gln	Asp	Asp	Tyr	Ser	His	Tyr	Thr	Met	Asp	Tyr
1				5					10	