

\_Sequence\_Listing\_9\_22\_16\_ST25  
SEQUENCE LISTING

<110> Genentech, Inc.  
F. Hoffmann-La Roche AG

<120> ANTI-TIGIT ANTIBODIES AND METHODS OF USE

<130> 50474-120W03

<150> US 62/369,299

<151> 2016-08-01

<150> US 62/233,230

<151> 2015-09-25

<160> 354

<170> PatentIn version 3.5

<210> 1

<211> 7

<212> PRT

<213> Homo sapiens

<400> 1

Ser Asn Ser Ala Ala Trp Asn  
1 5

<210> 2

<211> 18

<212> PRT

<213> Homo sapiens

<400> 2

Lys Thr Tyr Tyr Arg Phe Lys Trp Tyr Ser Asp Tyr Ala Val Ser Val  
1 5 10 15

Lys Gly

<210> 3

<211> 14

<212> PRT

\_Sequence\_Listing\_9\_22\_16\_ST25

<213> Homo sapiens

<400> 3

Glu Ser Thr Thr Tyr Asp Leu Leu Ala Gly Pro Phe Asp Tyr  
1 5 10

<210> 4

<211> 17

<212> PRT

<213> Homo sapiens

<400> 4

Lys Ser Ser Gln Thr Val Leu Tyr Ser Ser Asn Asn Lys Lys Tyr Leu  
1 5 10 15

Ala

<210> 5

<211> 7

<212> PRT

<213> Homo sapiens

<400> 5

Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 6

<211> 9

<212> PRT

<213> Homo sapiens

<400> 6

Gln Gln Tyr Tyr Ser Thr Pro Phe Thr  
1 5

<210> 7

<211> 23

<212> PRT

\_Sequence\_Listing\_9\_22\_16\_ST25

<213> Homo sapiens

<400> 7

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

Glu Arg Ala Thr Ile Asn Cys  
20

<210> 8

<211> 15

<212> PRT

<213> Homo sapiens

<400> 8

Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Asn Leu Leu Ile Tyr  
1 5 10 15

<210> 9

<211> 32

<212> PRT

<213> Homo sapiens

<400> 9

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr  
1 5 10 15

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

<210> 10

<211> 10

<212> PRT

<213> Homo sapiens

<400> 10

Phe Gly Pro Gly Thr Lys Val Glu Ile Lys  
1 5 10

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 11  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Xaa is Gln or Glu

<400> 11

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

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

<210> 12  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 12

Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu Gly  
1 5 10

<210> 13  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 13

Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn Gln Phe Ser Leu Gln  
1 5 10 15

Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val Phe Tyr Cys Thr Arg  
20 25 30

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 14  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 14

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
1 5 10

<210> 15  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 15

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

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

<210> 16  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 16

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

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

<210> 17  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 17

\_Sequence\_Listing\_9\_22\_16\_ST25

Ser Tyr Pro Met Asn  
1 5

<210> 18  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 18

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

Gly

<210> 19  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 19

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

<210> 20  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 20

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

<210> 21  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 21

\_Sequence\_Listing\_9\_22\_16\_ST25

Ala Ala Ser Thr Leu Gln Ser  
1 5

<210> 22  
<211> 9  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (8)..(8)  
<223> Xaa is Cys, Ser, or Tyr

<400> 22

Gln His Leu His Gly Tyr Pro Xaa Asn  
1 5

<210> 23  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 23

Gln His Leu His Gly Tyr Pro Ser Asn  
1 5

<210> 24  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 24

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

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

<210> 25

\_Sequence\_Listing\_9\_22\_16\_ST25

<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 25

Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met Gly  
1 5 10

<210> 26  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 26

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

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

<210> 27  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 27

Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser  
1 5 10

<210> 28  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 28

Gln His Leu His Gly Tyr Pro Cys Asn  
1 5

<210> 29

\_Sequence\_Listing\_9\_22\_16\_ST25

<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 29

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

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

<210> 30  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 30

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

Asp Arg Val Thr Ile Thr Cys  
20

<210> 31  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 31

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

<210> 32  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 32

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr

\_Sequence\_Listing\_9\_22\_16\_ST25

1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Val Thr Tyr Tyr Cys  
20 25 30

<210> 33  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 33

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
1 5 10

<210> 34  
<211> 126  
<212> PRT  
<213> Homo sapiens

<400> 34

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

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

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

Trp Leu Gly Lys Thr Tyr Tyr Arg Phe Lys Trp Tyr Ser Asp Tyr Ala  
50 55 60

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

<210> 35  
<211> 126  
<212> PRT  
<213> Homo sapiens

<400> 35

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

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

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

Trp Leu Gly Lys Thr Tyr Tyr Arg Phe Lys Trp Tyr Ser Asp Tyr Ala  
50 55 60

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

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 36  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 36

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

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

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

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

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

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

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

Lys

<210> 37  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 37

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

Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

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

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

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

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

<210> 38  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 38

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

Tyr Ala Ala Ser Thr Leu Gln Ser 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 Val Thr Tyr Tyr Cys Gln His Leu His Gly Tyr Pro Ser  
85 90 95

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

<210> 39  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 39

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

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

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

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

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

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

Sequence\_Listing\_9\_22\_16\_ST25

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

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

<210> 40  
<211> 107  
<212> PRT  
<213> Homo sapiens  
  
<400> 40

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

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

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

Tyr Ala Ala Ser Thr Leu Gln Ser 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 Val Thr Tyr Tyr Cys Gln His Leu His Gly Tyr Pro Cys  
85 90 95

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

<210> 41  
<211> 5  
<212> PRT  
<213> Homo sapiens

Sequence\_Listing\_9\_22\_16\_ST25

<400> 41

Asn Tyr Pro Met Asn  
1 5

<210> 42

<211> 17

<212> PRT

<213> Homo sapiens

<400> 42

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

Glu

<210> 43

<211> 11

<212> PRT

<213> Homo sapiens

<400> 43

Thr Ala Ile Thr Ser Val Tyr His Phe Asp Tyr  
1 5 10

<210> 44

<211> 11

<212> PRT

<213> Homo sapiens

<400> 44

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

<210> 45

<211> 7

<212> PRT

<213> Homo sapiens

\_Sequence\_Listing\_9\_22\_16\_ST25

<400> 45

Gly Ala Thr Thr Leu Gln Ser  
1 5

<210> 46

<211> 9

<212> PRT

<213> Homo sapiens

<220>

<221> MOD\_RES

<222> (8)..(8)

<223> Xaa is Cys, Ser, or Tyr

<400> 46

Gln Lys Leu Asn Ser His Pro Xaa Ser  
1 5

<210> 47

<211> 9

<212> PRT

<213> Homo sapiens

<400> 47

Gln Lys Leu Asn Ser His Pro Cys Ser  
1 5

<210> 48

<211> 9

<212> PRT

<213> Homo sapiens

<400> 48

Gln Lys Leu Asn Ser His Pro Ser Ser  
1 5

<210> 49

<211> 9

<212> PRT

\_Sequence\_Listing\_9\_22\_16\_ST25

<213> Homo sapiens

<400> 49

Gln Lys Leu Asn Ser His Pro Tyr Ser  
1 5

<210> 50

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Xaa is Glu or Gln

<400> 50

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

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

<210> 51

<211> 14

<212> PRT

<213> Homo sapiens

<400> 51

Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
1 5 10

<210> 52

<211> 32

<212> PRT

<213> Homo sapiens

<400> 52

Arg Phe Val Phe Ser Leu Asp Thr Ser Val Thr Thr Ala Tyr Leu Gln

\_Sequence\_Listing\_9\_22\_16\_ST25

1 5 10 15

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

<210> 53  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 53

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
1 5 10

<210> 54  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 54

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

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

<210> 55  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 55

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 56  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 56

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

Asp Arg Val Thr Ile Thr Cys  
20

<210> 57  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 57

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Arg Val Leu Ile Tyr  
1 5 10 15

<210> 58  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 58

Gly Val Pro Ser Arg Phe Ser Gly Ser Glu Ser Gly Thr Glu Phe Thr  
1 5 10 15

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

<210> 59  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 59

\_Sequence\_Listing\_9\_22\_16\_ST25

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
1 5 10

<210> 60  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 60

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

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

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

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

Thr Glu Arg Phe Val Phe Ser Leu Asp Thr Ser Val Thr Thr Ala Tyr  
65 70 75 80

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

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

Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 61  
<211> 107  
<212> PRT  
<213> Homo sapiens

\_Sequence\_Listing\_9\_22\_16\_ST25

<400> 61

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

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

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

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

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

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

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

<210> 62

<211> 120

<212> PRT

<213> Homo sapiens

<400> 62

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

Thr Glu Arg Phe Val Phe Ser Leu Asp Thr Ser Val Thr Thr Ala Tyr  
65 70 75 80

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

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

Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 63  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 63

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

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

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

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

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

Sequence\_Listing\_9\_22\_16\_ST25

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

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

<210> 64  
<211> 107  
<212> PRT  
<213> Homo sapiens  
  
<400> 64

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

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

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

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

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

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

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

<210> 65  
<211> 9  
<212> PRT  
<213> Homo sapiens

Sequence\_Listing\_9\_22\_16\_ST25

<400> 65

Gln His Leu His Gly Tyr Pro Tyr Asn  
1 5

<210> 66

<211> 122

<212> PRT

<213> Homo sapiens

<400> 66

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

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

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

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

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

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

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

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

<210> 67

<211> 107

<212> PRT

\_Sequence\_Listing\_9\_22\_16\_ST25

<213> Homo sapiens

<400> 67

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

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

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

Tyr Ala Ala Ser Thr Leu Gln Ser 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 Val Thr Tyr Tyr Cys Gln His Leu His Gly Tyr Pro Tyr  
85 90 95

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

<210> 68

<211> 7

<212> PRT

<213> Rattus norvegicus

<400> 68

Thr Tyr Gly Met Gly Val Ser  
1 5

<210> 69

<211> 16

<212> PRT

<213> Rattus norvegicus

\_Sequence\_Listing\_9\_22\_16\_ST25

<400> 69

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

<210> 70

<211> 11

<212> PRT

<213> Rattus norvegicus

<400> 70

Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr  
1 5 10

<210> 71

<211> 11

<212> PRT

<213> Rattus norvegicus

<400> 71

Lys Ala Ser Gln Ser Val Gly Lys Asn Ile Ala  
1 5 10

<210> 72

<211> 7

<212> PRT

<213> Rattus norvegicus

<400> 72

Tyr Ala Ser Asn Arg Tyr Thr  
1 5

<210> 73

<211> 9

<212> PRT

<213> Rattus norvegicus

<400> 73

Gln His Ile Tyr Asn Ser Pro Tyr Pro  
1 5

Sequence\_Listing\_9\_22\_16\_ST25

<210> 74  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Xaa is Glu or Gln

<220>  
<221> MOD\_RES  
<222> (3)..(3)  
<223> Xaa is Ser or Thr

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> Xaa is Ala or Gly

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> Xaa is Ile or Leu

<220>  
<221> MOD\_RES  
<222> (12)..(12)  
<223> Xaa is Leu or Val

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Xaa is Lys or Gln

<220>  
<221> MOD\_RES  
<222> (15)..(15)  
<223> Xaa is Ser or Thr

<220>  
<221> MOD\_RES

\_Sequence\_Listing\_9\_22\_16\_ST25

<222> (16)..(16)  
<223> Xaa is His or Gln

<220>  
<221> MOD\_RES  
<222> (19)..(19)  
<223> Xaa is Ser or Thr

<220>  
<221> MOD\_RES  
<222> (23)..(23)  
<223> Xaa is Ser or Thr

<400> 74

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Xaa | Leu | Lys | Glu | Ser | Gly | Pro | Xaa | Xaa | Xaa | Xaa | Pro | Xaa | Xaa |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Xaa | Leu | Thr | Cys | Xaa | Phe | Ser | Gly | Phe | Ser | Leu | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |

<210> 75  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> Xaa is Pro or Ser

<220>  
<221> MOD\_RES  
<222> (7)..(7)  
<223> Xaa is Glu or Gly

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Xaa is Ala or Gly

<400> 75

## Sequence\_Listing\_9\_22\_16\_ST25

Trp Ile Arg Gln Pro Xaa Xaa Lys Xaa Leu Glu Trp Leu Ala  
1 5 10

|                       |                     |
|-----------------------|---------------------|
| $\langle 210 \rangle$ | 76                  |
| $\langle 211 \rangle$ | 32                  |
| $\langle 212 \rangle$ | PRT                 |
| $\langle 213 \rangle$ | Artificial Sequence |

<220>  
<223> Synthetic Construct

```
<220>
<221> MOD_RES
<222> (4)..(4)
<223> Xaa is Ile or Val
```

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

```
<220>
<221> MOD_RES
<222> (8)..(8)
<223> Xaa is Ala or Thr
```

```
<220>
<221> MOD_RES
<222> (10)..(10)
<223> Xaa is Lys or Asn
```

```
<220>
<221> MOD_RES
<222> (11)..(11)
<223> Xaa is Asp or Asn
```

```
<220>
<221> MOD_RES
<222> (13)..(13)
<223> Xaa is Ala or Val
```

```
<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is Phe or Val
```

Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<221> MOD\_RES  
<222> (16)..(16)  
<223> Xaa is Asn or Thr

<220>  
<221> MOD\_RES  
<222> (17)..(17)  
<223> Xaa is Met or Val

<220>  
<221> MOD\_RES  
<222> (19)..(19)  
<223> Xaa is Asn or Ser

<220>  
<221> MOD\_RES  
<222> (20)..(20)  
<223> Xaa is Met or Val

<220>  
<221> MOD\_RES  
<222> (22)..(22)  
<223> Xaa is Pro or Thr

<220>  
<221> MOD\_RES  
<222> (23)..(23)  
<223> Xaa is Thr or Val

<400> 76

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Thr | Xaa | Xaa | Lys | Asp | Xaa | Ser | Xaa | Xaa | Gln | Xaa | Xaa | Leu | Xaa |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Xaa | Xaa | Asp | Xaa | Xaa | Asp | Thr | Ala | Thr | Tyr | Tyr | Cys | Ala | His |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 77  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

\_Sequence\_Listing\_9\_22\_16\_ST25

<400> 77

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
1 5 10

<210> 78

<211> 30

<212> PRT

<213> Rattus norvegicus

<400> 78

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

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

<210> 79

<211> 14

<212> PRT

<213> Rattus norvegicus

<400> 79

Trp Ile Arg Gln Pro Ser Glu Lys Gly Leu Glu Trp Leu Ala  
1 5 10

<210> 80

<211> 32

<212> PRT

<213> Rattus norvegicus

<400> 80

Arg Leu Thr Val Ser Lys Asp Ala Ser Asn Asp Gln Ala Phe Leu Asn  
1 5 10 15

Val Thr Ser Val Asp Thr Thr Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 81  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 81

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

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

<210> 82  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 82

Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu Trp Leu Ala  
1 5 10

<210> 83  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 83

Arg Leu Thr Val Thr Lys Asp Ala Ser Lys Asn Gln Ala Val Leu Thr  
1 5 10 15

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 84  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 84

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

<210> 85  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 85

Arg Leu Thr Val Thr Lys Asp Thr Ser Lys Asn Gln Ala Val Leu Thr  
1 5 10 15

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

<210> 86  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 86

\_Sequence\_Listing\_9\_22\_16\_ST25

Arg Leu Thr Val Thr Lys Asp Ala Ser Lys Asn Gln Val Val Leu Thr  
1 5 10 15

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

<210> 87  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 87

Arg Leu Thr Ile Thr Lys Asp Thr Ser Lys Asn Gln Val Val Leu Thr  
1 5 10 15

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

<210> 88  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Xaa is Asp or Asn

<220>  
<221> MOD\_RES  
<222> (3)..(3)  
<223> Xaa is Gln or Val

<220>  
<221> MOD\_RES  
<222> (9)..(9)

\_Sequence\_Listing\_9\_22\_16\_ST25

<223> Xaa is Lys or Ser

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> Xaa is Leu or Met

<220>

<221> MOD\_RES

<222> (13)..(13)

<223> Xaa is Ala or Ile

<220>

<221> MOD\_RES

<222> (21)..(21)

<223> Xaa is Ile or Met

<220>

<221> MOD\_RES

<222> (22)..(22)

<223> Xaa is Asn or Thr

<400> 88

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ile | Xaa | Met | Thr | Gln | Ser | Pro | Xaa | Ser | Xaa | Ser | Xaa | Ser | Val | Gly |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| Asp | Arg | Val | Thr | Xaa | Xaa | Cys |
|     |     |     | 20  |     |     |     |

<210> 89

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (8)..(8)

<223> Xaa is Lys or Gln

<220>

<221> MOD\_RES

\_Sequence\_Listing\_9\_22\_16\_ST25

<222> (9)..(9)

<223> Xaa is Ala or Ser

<400> 89

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Xaa | Xaa | Pro | Lys | Leu | Leu | Ile | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 90

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> Xaa is Asp or Ser

<220>

<221> MOD\_RES

<222> (7)..(7)

<223> Xaa is Ser or Thr

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Xaa is Gly or Ser

<220>

<221> MOD\_RES

<222> (17)..(17)

<223> Xaa is Phe or Leu

<220>

<221> MOD\_RES

<222> (20)..(20)

<223> Xaa is Asn or Ser

<220>

<221> MOD\_RES

<222> (21)..(21)

<223> Xaa is Ser or Thr

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<221> MOD\_RES  
<222> (22)..(22)  
<223> Xaa is Leu or Val

<220>  
<221> MOD\_RES  
<222> (24)..(24)  
<223> Xaa is Ala or Pro

<220>  
<221> MOD\_RES  
<222> (27)..(27)  
<223> Xaa is Ala or Ile

<220>  
<221> MOD\_RES  
<222> (29)..(29)  
<223> Xaa is Phe or Thr

<220>  
<221> MOD\_RES  
<222> (30)..(30)  
<223> Xaa is Phe or Tyr

<400> 90

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Pro | Xaa | Arg | Phe | Xaa | Gly | Xaa | Gly | Ser | Gly | Thr | Asp | Phe | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Ile | Xaa | Xaa | Xaa | Gln | Xaa | Glu | Asp | Xaa | Ala | Xaa | Xaa | Tyr | Cys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 91  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (3)..(3)  
<223> Xaa is Gln or Thr

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<221> MOD\_RES

<222> (7)..(7)

<223> Xaa is Leu or Val

<400> 91

Phe Gly Xaa Gly Thr Lys Xaa Glu Ile Lys  
1 5 10

<210> 92

<211> 23

<212> PRT

<213> Rattus norvegicus

<400> 92

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Ile Ser Val Gly  
1 5 10 15

Asp Arg Val Thr Met Asn Cys  
20

<210> 93

<211> 15

<212> PRT

<213> Rattus norvegicus

<400> 93

Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr  
1 5 10 15

<210> 94

<211> 32

<212> PRT

<213> Rattus norvegicus

<400> 94

Gly Val Pro Asp Arg Phe Thr Gly Gly Gly Ser Gly Thr Asp Phe Thr  
1 5 10 15

Sequence\_Listing\_9\_22\_16\_ST25

Leu Thr Ile Asn Thr Val Gln Ala Glu Asp Ala Ala Phe Phe Tyr Cys  
20 25 30

<210> 95  
<211> 10  
<212> PRT  
<213> Rattus norvegicus

<400> 95

Phe Gly Thr Gly Thr Lys Leu Glu Ile Lys  
1 5 10

<210> 96  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 96

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  
20

<210> 97  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 97

Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile Tyr  
1 5 10 15

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 98  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 98

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Lys | Ala | Pro | Lys | Leu | Leu | Ile | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 99  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 99

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Pro | Ser | Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |     | 15  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Thr | Ile | Ser | Ser | Leu | Gln | Pro | Glu | Asp | Ile | Ala | Thr | Tyr | Tyr | Cys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 100  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 100

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Gln | Gly | Thr | Lys | Val | Glu | Ile | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |

<210> 101  
<211> 121

\_Sequence\_Listing\_9\_22\_16\_ST25

<212> PRT

<213> Rattus norvegicus

<400> 101

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

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

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 102

<211> 107

<212> PRT

<213> Rattus norvegicus

<400> 102

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Ile Ser Val Gly  
1 5 10 15

Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Thr Val Gln Ala  
65 70 75 80

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

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

<210> 103

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 103

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

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

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

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

Sequence\_Listing\_9\_22\_16\_ST25

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

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 104  
<211> 121  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 104

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

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

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

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

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

Sequence\_Listing\_9\_22\_16\_ST25

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 105

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 105

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

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

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

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

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

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Sequence\_Listing\_9\_22\_16\_ST25

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 106  
<211> 121  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 106

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

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

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

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

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

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 107  
<211> 121  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic Construct  
  
<400> 107

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

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

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

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

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

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 108  
<211> 107  
<212> PRT  
<213> Artificial Sequence  
  
<220>

Sequence\_Listing\_9\_22\_16\_ST25

<223> Synthetic Construct

<400> 108

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 Ser Val Gly Lys Asn  
20 25 30

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

Tyr Tyr Ala Ser Asn 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 His Ile Tyr Asn Ser Pro Tyr  
85 90 95

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

<210> 109

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 109

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 Ser Val Gly Lys Asn  
20 25 30

Sequence\_Listing\_9\_22\_16\_ST25

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

Tyr Tyr Ala Ser Asn 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 His Ile Tyr Asn Ser Pro Tyr  
85 90 95

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

<210> 110  
<211> 7  
<212> PRT  
<213> Rattus norvegicus

<400> 110

Thr Tyr Gly Met Gly Val Ser  
1 5

<210> 111  
<211> 16  
<212> PRT  
<213> Rattus norvegicus

<400> 111

Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser Leu Arg Ser  
1 5 10 15

<210> 112  
<211> 11  
<212> PRT  
<213> Rattus norvegicus

\_Sequence\_Listing\_9\_22\_16\_ST25

<400> 112

Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr  
1 5 10

<210> 113

<211> 11

<212> PRT

<213> Rattus norvegicus

<400> 113

Lys Ala Ser Gln Ser Val Gly Lys Asn Ile Ala  
1 5 10

<210> 114

<211> 7

<212> PRT

<213> Rattus norvegicus

<400> 114

Tyr Ala Ser Asn Arg Tyr Thr  
1 5

<210> 115

<211> 9

<212> PRT

<213> Rattus norvegicus

<400> 115

Gln His Ile Tyr Asn Ser Pro Tyr Pro  
1 5

<210> 116

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Xaa is Glu or Gln

<220>  
<221> MOD\_RES  
<222> (3)..(3)  
<223> Xaa is Ser or Thr

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> Xaa is Ala or Gly

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> Xaa is Ile or Leu

<220>  
<221> MOD\_RES  
<222> (12)..(12)  
<223> Xaa is Leu or Val

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Xaa is Lys or Gln

<220>  
<221> MOD\_RES  
<222> (15)..(15)  
<223> Xaa is Ser or Thr

<220>  
<221> MOD\_RES  
<222> (16)..(16)  
<223> Xaa is His or Gln

<220>  
<221> MOD\_RES  
<222> (19)..(19)  
<223> Xaa is Ser or Thr

<220>  
<221> MOD\_RES

\_Sequence\_Listing\_9\_22\_16\_ST25

<222> (23)..(23)

<223> Xaa is Ser or Thr

<400> 116

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

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

<210> 117

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (6)..(6)

<223> Xaa is Pro or Ser

<220>

<221> MOD\_RES

<222> (7)..(7)

<223> Xaa is Glu or Gly

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Xaa is Ala or Gly

<400> 117

Trp Ile Arg Gln Pro Xaa Xaa Lys Xaa Leu Glu Trp Leu Ala  
1 5 10

<210> 118

<211> 32

<212> PRT

<213> Artificial Sequence

Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (4)..(4)  
<223> Xaa is Ile or Val

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Xaa is Ser or Thr

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> Xaa is Lys or Asn

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> Xaa is Asp or Asn

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Xaa is Ala or Val

<220>  
<221> MOD\_RES  
<222> (14)..(14)  
<223> Xaa is Phe or Val

<220>  
<221> MOD\_RES  
<222> (16)..(16)  
<223> Xaa is Asn or Thr

<220>  
<221> MOD\_RES  
<222> (17)..(17)  
<223> Xaa is Met or Val

<220>  
<221> MOD\_RES  
<222> (19)..(19)  
<223> Xaa is Asn or Ser

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<221> MOD\_RES  
<222> (20)..(20)  
<223> Xaa is Met or Val

<220>  
<221> MOD\_RES  
<222> (22)..(22)  
<223> Xaa is Pro or Thr

<220>  
<221> MOD\_RES  
<222> (23)..(23)  
<223> Xaa is Thr or Val

<400> 118

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Thr | Xaa | Xaa | Lys | Asp | Thr | Ser | Xaa | Xaa | Gln | Xaa | Xaa | Leu | Xaa |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Xaa | Xaa | Asp | Xaa | Xaa | Asp | Thr | Ala | Thr | Tyr | Tyr | Cys | Ala | His |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 119  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 119

|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |

<210> 120  
<211> 30  
<212> PRT  
<213> Rattus norvegicus

<400> 120

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

\_Sequence\_Listing\_9\_22\_16\_ST25

1 5 10 15

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

<210> 121  
<211> 14  
<212> PRT  
<213> Rattus norvegicus

<400> 121

Trp Ile Arg Gln Pro Ser Glu Lys Gly Leu Glu Trp Leu Ala  
1 5 10

<210> 122  
<211> 32  
<212> PRT  
<213> Rattus norvegicus

<400> 122

Arg Leu Thr Val Ser Lys Asp Thr Ser Asn Asp Gln Ala Phe Leu Asn  
1 5 10 15

Val Thr Ser Val Asp Thr Thr Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

<210> 123  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 123

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

Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Thr

\_Sequence\_Listing\_9\_22\_16\_ST25

20

25

30

<210> 124  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 124

Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu Trp Leu Ala  
1 5 10

<210> 125  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 125

Arg Leu Thr Val Thr Lys Asp Thr Ser Lys Asn Gln Ala Val Leu Thr  
1 5 10 15

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

<210> 126  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 126

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

\_Sequence\_Listing\_9\_22\_16\_ST25

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

<210> 127  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 127

Arg Leu Thr Val Thr Lys Asp Thr Ser Lys Asn Gln Val Val Leu Thr  
1 5 10 15

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

<210> 128  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 128

Arg Leu Thr Ile Thr Lys Asp Thr Ser Lys Asn Gln Val Val Leu Thr  
1 5 10 15

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His  
20 25 30

<210> 129  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Xaa is Glu or Asn

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Xaa is Ala or Lys

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> Xaa is Ser or Thr

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> Xaa is Leu or Met

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Xaa is Ile or Val

<220>  
<221> MOD\_RES  
<222> (15)..(15)  
<223> Xaa is Ile or Pro

<220>  
<221> MOD\_RES  
<222> (17)..(17)  
<223> Xaa is Asp or Glu

<220>  
<221> MOD\_RES  
<222> (19)..(19)  
<223> Xaa is Ala or Val

<220>  
<221> MOD\_RES  
<222> (21)..(21)  
<223> Xaa is Leu or Met

<220>

\_Sequence\_Listing\_9\_22\_16\_ST25

<221> MOD\_RES  
<222> (22)..(22)  
<223> Xaa is Asn or Ser

<400> 129

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

Xaa Arg Xaa Thr Xaa Xaa Cys  
20

<210> 130  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> Xaa is Pro or Thr

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Xaa is Ala or Ser

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> Xaa is Gln or Arg

<400> 130

Trp Tyr Gln Gln Lys Xaa Gly Gln Xaa Pro Xaa Leu Leu Ile Tyr  
1 5 10 15

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

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (2)..(2)  
<223> Xaa is Ile or Val

<220>  
<221> MOD\_RES  
<222> (4)..(4)  
<223> Xaa is Ala or Asp

<220>  
<221> MOD\_RES  
<222> (7)..(7)  
<223> Xaa is Ser or Thr

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Xaa is Gly or Ser

<220>  
<221> MOD\_RES  
<222> (14)..(14)  
<223> Xaa is Asp or Glu

<220>  
<221> MOD\_RES  
<222> (20)..(20)  
<223> Xaa is Asn or Ser

<220>  
<221> MOD\_RES  
<222> (22)..(22)  
<223> Xaa is Leu or Val

<220>  
<221> MOD\_RES  
<222> (24)..(24)  
<223> Xaa is Ala or Ser

<220>  
<221> MOD\_RES  
<222> (27)..(27)

\_Sequence\_Listing\_9\_22\_16\_ST25

<223> Xaa is Ala or Phe

<220>

<221> MOD\_RES

<222> (29)..(29)

<223> Xaa is Phe or Val

<220>

<221> MOD\_RES

<222> (30)..(30)

<223> Xaa is Phe or Tyr

<400> 131

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Pro | Xaa | Arg | Phe | Xaa | Gly | Xaa | Gly | Ser | Gly | Thr | Xaa | Phe | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Ile | Xaa | Ser | Xaa | Gln | Xaa | Glu | Asp | Xaa | Ala | Xaa | Xaa | Tyr | Cys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 132

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (3)..(3)

<223> Xaa is Gln or Thr

<220>

<221> MOD\_RES

<222> (7)..(7)

<223> Xaa is Leu or Val

<400> 132

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Xaa | Gly | Thr | Lys | Xaa | Glu | Ile | Lys |
| 1   |     |     |     | 5   |     |     |     | 10  |     |

<210> 133

\_Sequence\_Listing\_9\_22\_16\_ST25

<211> 23  
<212> PRT  
<213> Rattus norvegicus

<400> 133

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ile | Val | Met | Thr | Gln | Ser | Pro | Lys | Ser | Met | Ser | Ile | Ser | Ile | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| Asp | Arg | Val | Thr | Met | Asn | Cys |
|     |     |     | 20  |     |     |     |

<210> 134  
<211> 15  
<212> PRT  
<213> Rattus norvegicus

<400> 134

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Gln | Gln | Lys | Thr | Gly | Gln | Ser | Pro | Gln | Leu | Leu | Ile | Tyr |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |

<210> 135  
<211> 32  
<212> PRT  
<213> Rattus norvegicus

<400> 135

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Pro | Asp | Arg | Phe | Thr | Gly | Gly | Gly | Ser | Gly | Thr | Asp | Phe | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Ile | Asn | Ser | Val | Gln | Ala | Glu | Asp | Ala | Ala | Phe | Phe | Tyr | Cys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 136  
<211> 10  
<212> PRT  
<213> Rattus norvegicus

<400> 136

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Thr | Gly | Thr | Lys | Leu | Glu | Ile | Lys |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

\_Sequence\_Listing\_9\_22\_16\_ST25

1 5 10

<210> 137  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 137

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

Glu Arg Ala Thr Leu Ser Cys  
20

<210> 138  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 138

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

<210> 139  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 139

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

Sequence\_Listing\_9\_22\_16\_ST25

<210> 140  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 140

Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr  
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys  
20 25 30

<210> 141  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 141

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr  
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys  
20 25 30

<210> 142  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 142

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

\_Sequence\_Listing\_9\_22\_16\_ST25

1

5

10

<210> 143

<211> 121

<212> PRT

<213> Rattus norvegicus

<400> 143

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

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

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

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

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 144

<211> 107

<212> PRT

<213> Rattus norvegicus

<400> 144

Sequence\_Listing\_9\_22\_16\_ST25

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Ile Ser Ile Gly  
1 5 10 15

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

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

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

Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Val Gln Ala  
65 70 75 80

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

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

<210> 145  
<211> 121  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 145

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

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

Gly Met Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu

\_Sequence\_Listing\_9\_22\_16\_ST25

35

40

45

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

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

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 146

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 146

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

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 147  
<211> 121  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 147

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

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

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

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

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

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr

\_Sequence\_Listing\_9\_22\_16\_ST25

85

90

95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 148

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 148

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

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

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

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

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

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly  
100 105 110

\_Sequence\_Listing\_9\_22\_16\_ST25

Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 149  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 149

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

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

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

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser  
65 70 75 80

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

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

<210> 150  
<211> 107  
<212> PRT  
<213> Artificial Sequence

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<223> Synthetic Construct

<400> 150

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

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

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

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser  
65 70 75 80

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

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

<210> 151

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 151

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

20

25

30

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

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser  
65 70 75 80

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

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

<210> 152

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 152

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

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

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

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

Sequence\_Listing\_9\_22\_16\_ST25

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser  
65 70 75 80

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

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

<210> 153  
<211> 5  
<212> PRT  
<213> Rattus norvegicus

<400> 153

Glu Tyr Ser Ile Tyr  
1 5

<210> 154  
<211> 17  
<212> PRT  
<213> Rattus norvegicus

<400> 154

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

Asn

<210> 155  
<211> 8  
<212> PRT  
<213> Rattus norvegicus

<400> 155

Ile Tyr Gly Phe Tyr Phe Asp Phe  
1 5

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 156  
<211> 11  
<212> PRT  
<213> Rattus norvegicus

<400> 156

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

<210> 157  
<211> 7  
<212> PRT  
<213> Rattus norvegicus

<400> 157

Asn Thr Asp Asn Leu Gln Ser  
1 5

<210> 158  
<211> 8  
<212> PRT  
<213> Rattus norvegicus

<400> 158

Tyr Gln Tyr Asn Asn Gly Phe Thr  
1 5

<210> 159  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Xaa is Gln or Val

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Xaa is Ala or Pro

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> Xaa is Leu or Val

<220>  
<221> MOD\_RES  
<222> (12)..(12)  
<223> Xaa is Lys or Gln

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Xaa is Lys or Arg

<220>  
<221> MOD\_RES  
<222> (20)..(20)  
<223> Xaa is Leu or Val

<220>  
<221> MOD\_RES  
<222> (25)..(25)  
<223> Xaa is Ser or Thr

<400> 159

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Gln | Leu | Xaa | Gln | Ser | Gly | Xaa | Glu | Xaa | Xaa | Xaa | Pro | Gly | Ala |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     |     | 15  |     |

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

<210> 160  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<221> MOD\_RES  
<222> (3)..(3)  
<223> Xaa is Lys or Arg

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Xaa is Ala or Arg

<220>  
<221> MOD\_RES  
<222> (7)..(7)  
<223> Xaa is Gly or Lys

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Xaa is Arg or Ser

<220>  
<221> MOD\_RES  
<222> (12)..(12)  
<223> Xaa is Ile or Trp

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Xaa is Ile or Met

<400> 160

Trp Val Xaa Gln Xaa Pro Xaa Gln Xaa Leu Glu Xaa Xaa Gly  
1 5 10

<210> 161  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>

Sequence\_Listing\_9\_22\_16\_ST25

<221> MOD\_RES  
<222> (2)..(2)  
<223> Xaa is Ala or Val

<220>  
<221> MOD\_RES  
<222> (4)..(4)  
<223> Xaa is Ile or Leu

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> Xaa is Ala or Arg

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> Xaa is Ala or Ser

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> Xaa is Asn or Ser

<220>  
<221> MOD\_RES  
<222> (16)..(16)  
<223> Xaa is Glu or Gln

<220>  
<221> MOD\_RES  
<222> (21)..(21)  
<223> Xaa is Arg or Thr

<220>  
<221> MOD\_RES  
<222> (27)..(27)  
<223> Xaa is Thr or Val

<220>  
<221> MOD\_RES  
<222> (29)..(29)  
<223> Xaa is Phe or Tyr

<220>  
<221> MOD\_RES  
<222> (31)..(31)  
<223> Xaa is Ala or Thr

\_Sequence\_Listing\_9\_22\_16\_ST25

<400> 161

Arg Xaa Thr Xaa Thr Xaa Asp Thr Ser Xaa Xaa Thr Ala Tyr Met Xaa  
1 5 10 15

Leu Ser Ser Leu Xaa Ser Glu Asp Thr Ala Xaa Tyr Xaa Cys Xaa Arg  
20 25 30

<210> 162

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> Xaa is Thr or Val

<220>

<221> MOD\_RES

<222> (6)..(6)

<223> Xaa is Leu or Met

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Xaa is Ala or Val

<400> 162

Trp Gly Gln Gly Xaa Xaa Val Thr Xaa Ser Ser  
1 5 10

<210> 163

<211> 30

<212> PRT

<213> Rattus norvegicus

<400> 163

Sequence\_Listing\_9\_22\_16\_ST25

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

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

<210> 164  
<211> 14  
<212> PRT  
<213> Rattus norvegicus  
  
<400> 164

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

<210> 165  
<211> 32  
<212> PRT  
<213> Rattus norvegicus  
  
<400> 165

Arg Ala Thr Leu Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr Met Gln  
1 5 10 15

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

<210> 166  
<211> 11  
<212> PRT  
<213> Rattus norvegicus  
  
<400> 166

Trp Gly Gln Gly Val Met Val Thr Ala Ser Ser  
1 5 10

<210> 167  
<211> 30  
<212> PRT

\_Sequence\_Listing\_9\_22\_16\_ST25

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 167

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | 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 |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |

<210> 168

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 168

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Arg | Leu | Glu | Ile | Ile | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 169

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 169

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Arg | Leu | Glu | Trp | Ile | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 170

<211> 14

<212> PRT

<213> Artificial Sequence

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<223> Synthetic Construct

<400> 170

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

<210> 171

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 171

Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met Gly  
1 5 10

<210> 172

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 172

Arg Ala Thr Leu Thr Ala Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 173

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

Sequence\_Listing\_9\_22\_16\_ST25

<400> 173

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

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

<210> 174

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 174

Arg Ala Thr Ile Thr Ala Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 175

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 175

Arg Ala Thr Leu Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 176

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<220>  
<223> Synthetic Construct

<400> 176

Arg Ala Thr Leu Thr Ala Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 177  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 177

Arg Ala Thr Leu Thr Ala Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 178  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 178

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<210> 179  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 179

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
1 5 10

<210> 180  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Xaa is Asp or Asn

<220>  
<221> MOD\_RES  
<222> (3)..(3)  
<223> Xaa is His or Gln

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> Xaa is Phe or Leu

<220>  
<221> MOD\_RES  
<222> (21)..(21)  
<223> Xaa is Ile or Leu

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<221> MOD\_RES

<222> (22)..(22)

<223> Xaa is Ser or Thr

<400> 180

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ile | Xaa | Leu | Thr | Gln | Ser | Pro | Ser | Xaa | Leu | Ser | Ala | Ser | Val | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| Asp | Arg | Val | Thr | Xaa | Xaa | Cys |
|     |     |     |     |     |     | 20  |

<210> 181

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (6)..(6)

<223> Xaa is Leu or Pro

<220>

<221> MOD\_RES

<222> (8)..(8)

<223> Xaa is Glu or Lys

<400> 181

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Gln | Gln | Lys | Xaa | Gly | Xaa | Ala | Pro | Lys | Leu | Leu | Ile | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 182

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>  
<221> MOD\_RES  
<222> (2)..(2)  
<223> Xaa is Ile or Val

<220>  
<221> MOD\_RES  
<222> (14)..(14)  
<223> Xaa is Asp or Glu

<220>  
<221> MOD\_RES  
<222> (15)..(15)  
<223> Xaa is Phe or Tyr

<220>  
<221> MOD\_RES  
<222> (27)..(27)  
<223> Xaa is Ala or Phe

<220>  
<221> MOD\_RES  
<222> (31)..(31)  
<223> Xaa is Phe or Tyr

<400> 182

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Pro | Ser | Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Xaa | Xaa | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro | Glu | Asp | Xaa | Ala | Thr | Tyr | Xaa | Cys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 183  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (3)..(3)

\_Sequence\_Listing\_9\_22\_16\_ST25

<223> Xaa is Gln or Ser

<220>

<221> MOD\_RES

<222> (7)..(7)

<223> Xaa is Leu or Val

<400> 183

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Xaa | Gly | Thr | Lys | Xaa | Glu | Ile | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |

<210> 184

<211> 23

<212> PRT

<213> Rattus norvegicus

<400> 184

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ile | His | Leu | Thr | Gln | Ser | Pro | Ser | Leu | Leu | Ser | Ala | Ser | Val | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| Asp | Arg | Val | Thr | Leu | Ser | Cys |
|     |     |     | 20  |     |     |     |

<210> 185

<211> 15

<212> PRT

<213> Rattus norvegicus

<400> 185

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Gln | Gln | Lys | Leu | Gly | Glu | Ala | Pro | Lys | Leu | Leu | Ile | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 186

<211> 32

<212> PRT

<213> Rattus norvegicus

<400> 186

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Ser | Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Tyr | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Sequence\_Listing\_9\_22\_16\_ST25

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

<210> 187  
<211> 10  
<212> PRT  
<213> Rattus norvegicus

<400> 187

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys  
1 5 10

<210> 188  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 188

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

Asp Arg Val Thr Ile Thr Cys  
20

<210> 189  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 189

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
1 5 10 15

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 190  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 190

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

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

<210> 191  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 191

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

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

<210> 192  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Seq\_193

<400> 192

Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr

\_Sequence\_Listing\_9\_22\_16\_ST25

1 5 10 15

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

<210> 193  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 193

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

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

<210> 194  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 194

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr  
1 5 10 15

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

<210> 195  
<211> 32  
<212> PRT  
<213> Artificial Sequence

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<223> Synthetic Construct

<400> 195

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

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

<210> 196

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 196

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
1 5 10

<210> 197

<211> 117

<212> PRT

<213> Rattus norvegicus

<400> 197

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

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

Thr Arg Ile Tyr Gly Phe Tyr Phe Asp Phe Trp Gly Gln Gly Val Met  
100 105 110

Val Thr Ala Ser Ser  
115

<210> 198  
<211> 106  
<212> PRT  
<213> Rattus norvegicus

<400> 198

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

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

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

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

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

Glu Asp Ala Ala Thr Tyr Phe Cys Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<210> 199  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 199

Glu 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 Glu Tyr  
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 200

\_Sequence\_Listing\_9\_22\_16\_ST25

<211> 117  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic Construct  
  
<400> 200

Glu 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 Glu Tyr  
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 201  
<211> 117  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic Construct

Sequence\_Listing\_9\_22\_16\_ST25

<400> 201

Glu 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 Glu Tyr  
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 202

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 202

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 203  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 203

Glu 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 Glu Tyr  
20 25 30

Ser Ile Tyr Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Ile Ile

\_Sequence\_Listing\_9\_22\_16\_ST25

35

40

45

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 204

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 204

Glu 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 Glu Tyr  
20 25 30

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

Val Thr Val Ser Ser  
115

<210> 205  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 205

Glu 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 Glu Tyr  
20 25 30

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

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

85

90

95

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

Val Thr Val Ser Ser  
115

<210> 206

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 206

Glu 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 Glu Tyr  
20 25 30

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

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

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

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

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

Sequence\_Listing\_9\_22\_16\_ST25

Val Thr Val Ser Ser  
115

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

<220>  
<223> Synthetic Construct

<400> 207

Glu 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 Glu Tyr  
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 208

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<220>  
<223> Synthetic Construct

<400> 208

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

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

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

Tyr Asn Thr Asp Asn Leu Gln Ser 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 Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

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

<210> 209  
<211> 106  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 209

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

\_Sequence\_Listing\_9\_22\_16\_ST25

1                    5                    10                    15

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

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

Tyr Asn Thr Asp Asn Leu Gln Ser Gly Val 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 Tyr Gln Tyr Asn Asn Gly Phe Thr  
                  85                    90                    95

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

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

<220>  
<223> Synthetic Construct

<400> 210

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

Tyr Asn Thr Asp Asn Leu Gln Ser 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 Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

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

<210> 211

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 211

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

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

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

Tyr Asn Thr Asp Asn Leu Gln Ser 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 Tyr Cys Tyr Gln Tyr Asn Asn Gly Phe Thr

\_Sequence\_Listing\_9\_22\_16\_ST25

85

90

95

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

<210> 212

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 212

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

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

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

Tyr Asn Thr Asp Asn Leu Gln Ser 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 Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

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

<210> 213

<211> 117

<212> PRT

\_Sequence\_Listing\_9\_22\_16\_ST25

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 213

Glu 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 Glu Tyr  
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 214

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 214

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

Tyr Asn Thr Asp Asn Leu Gln Ser Gly Val 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 Tyr Cys Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

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

<210> 215  
<211> 5  
<212> PRT  
<213> Rattus norvegicus

<400> 215

Glu His Ser Ile Tyr  
1 5

<210> 216  
<211> 17  
<212> PRT  
<213> Rattus norvegicus

<400> 216

Arg Ile Asp Pro Lys Asn Gly Arg Thr Tyr Phe Val Asp Lys Phe Lys

\_Sequence\_Listing\_9\_22\_16\_ST25

1 5 10 15

Asn

<210> 217  
<211> 8  
<212> PRT  
<213> Rattus norvegicus

<400> 217

Ile Asp Gly Phe Tyr Phe Asp Phe  
1 5

<210> 218  
<211> 11  
<212> PRT  
<213> Rattus norvegicus

<400> 218

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

<210> 219  
<211> 7  
<212> PRT  
<213> Rattus norvegicus

<400> 219

Ser Thr Asp Asn Leu Gln Ser  
1 5

<210> 220  
<211> 8  
<212> PRT  
<213> Rattus norvegicus

<400> 220

Tyr Gln Tyr Asn Asn Gly Phe Thr

\_Sequence\_Listing\_9\_22\_16\_ST25

1

5

<210> 221  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Xaa is Gln or Val

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Xaa is Ala or Pro

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> Xaa is Leu or Val

<220>  
<221> MOD\_RES  
<222> (12)..(12)  
<223> Xaa is Lys or Gln

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Xaa is Lys or Arg

<220>  
<221> MOD\_RES  
<222> (20)..(20)  
<223> Xaa is Leu or Val

<400> 221

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<210> 222  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (2)..(2)  
<223> Xaa is Leu or Val

<220>  
<221> MOD\_RES  
<222> (3)..(3)  
<223> Xaa is Lys or Arg

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Xaa is Ala or Arg

<220>  
<221> MOD\_RES  
<222> (7)..(7)  
<223> Xaa is Gly or Lys

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Xaa is Arg or Ser

<220>  
<221> MOD\_RES  
<222> (12)..(12)  
<223> Xaa is Ile or Trp

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Xaa is Ile or Met

Sequence\_Listing\_9\_22\_16\_ST25

<400> 222

Trp Xaa Xaa Gln Xaa Pro Xaa Gln Xaa Leu Glu Xaa Xaa Gly  
1 5 10

<210> 223

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (2)..(2)

<223> Xaa is Ala or Val

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> Xaa is Ile or Leu

<220>

<221> MOD\_RES

<222> (6)..(6)

<223> Xaa is Arg or Thr

<220>

<221> MOD\_RES

<222> (7)..(7)

<223> Xaa is Asp or Asn

<220>

<221> MOD\_RES

<222> (10)..(10)

<223> Xaa is Ala or Ser

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> Xaa is Asn or Ser

<220>

<221> MOD\_RES

<222> (16)..(16)

\_Sequence\_Listing\_9\_22\_16\_ST25

<223> Xaa is Glu or Gln

<220>

<221> MOD\_RES

<222> (21)..(21)

<223> Xaa is Arg or Thr

<220>

<221> MOD\_RES

<222> (27)..(27)

<223> Xaa is Ile or Val

<220>

<221> MOD\_RES

<222> (29)..(29)

<223> Xaa is Phe or Tyr

<400> 223

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Xaa | Thr | Xaa | Thr | Xaa | Xaa | Thr | Ser | Xaa | Xaa | Thr | Ala | Tyr | Met | Xaa |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Ser | Leu | Xaa | Ser | Glu | Asp | Thr | Ala | Xaa | Tyr | Xaa | Cys | Ala | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 224

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> Xaa is Thr or Val

<220>

<221> MOD\_RES

<222> (6)..(6)

<223> Xaa is Leu or Met

<220>

<221> MOD\_RES

\_Sequence\_Listing\_9\_22\_16\_ST25

<222> (9)..(9)

<223> Xaa is Ala or Val

<400> 224

|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gly | Gln | Gly | Xaa | Xaa | Val | Thr | Xaa | Ser | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |

<210> 225

<211> 30

<212> PRT

<213> Rattus norvegicus

<400> 225

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

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

<210> 226

<211> 14

<212> PRT

<213> Rattus norvegicus

<400> 226

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Leu | Lys | Gln | Arg | Pro | Lys | Gln | Ser | Leu | Glu | Ile | Ile | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 227

<211> 32

<212> PRT

<213> Rattus norvegicus

<400> 227

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Thr | Leu | Thr | Thr | Asn | Thr | Ser | Ser | Asn | Thr | Ala | Tyr | Met | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Ser | Leu | Thr | Ser | Glu | Asp | Thr | Ala | Ile | Tyr | Phe | Cys | Ala | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

Sequence\_Listing\_9\_22\_16\_ST25

<210> 228  
<211> 11  
<212> PRT  
<213> Rattus norvegicus

<400> 228

Trp Gly Gln Gly Val Met Val Thr Ala Ser Ser  
1 5 10

<210> 229  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 229

Glu 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  
20 25 30

<210> 230  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 230

Trp Leu Arg Gln Ala Pro Gly Gln Arg Leu Glu Ile Ile Gly  
1 5 10

<210> 231  
<211> 14  
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 231

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Arg | Leu | Glu | Ile | Ile | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 232

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 232

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Leu | Arg | Gln | Ala | Pro | Gly | Gln | Arg | Leu | Glu | Trp | Ile | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 233

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 233

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Leu | Arg | Gln | Ala | Pro | Gly | Gln | Arg | Leu | Glu | Ile | Met | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 234

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 234

Sequence\_Listing\_9\_22\_16\_ST25

Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met Gly  
1 5 10

<210> 235  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 235

Arg Ala Thr Leu Thr Thr Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 236  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 236

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

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

<210> 237  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

\_Sequence\_Listing\_9\_22\_16\_ST25

<400> 237

Arg Ala Thr Ile Thr Thr Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 238

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 238

Arg Ala Thr Leu Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 239

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 239

Arg Ala Thr Leu Thr Thr Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 240

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<220>  
<223> Synthetic Construct

<400> 240

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

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

<210> 241  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 241

Arg Ala Thr Ile Thr Thr Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu  
1 5 10 15

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

<210> 242  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 242

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
1 5 10

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 243  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Xaa is Asp or Asn

<220>  
<221> MOD\_RES  
<222> (3)..(3)  
<223> Xaa is His or Gln

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> Xaa is Phe or Leu

<220>  
<221> MOD\_RES  
<222> (21)..(21)  
<223> Xaa is Ile or Leu

<220>  
<221> MOD\_RES  
<222> (22)..(22)  
<223> Xaa is Ser or Thr

<400> 243

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

Asp Arg Val Thr Xaa Xaa Cys  
20

<210> 244  
<211> 15  
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (6)..(6)

<223> Xaa is Leu or Pro

<220>

<221> MOD\_RES

<222> (8)..(8)

<223> Xaa is Glu or Lys

<400> 244

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Gln | Gln | Lys | Xaa | Gly | Xaa | Ala | Pro | Lys | Leu | Leu | Ile | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 245

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (2)..(2)

<223> Xaa is Ile or Val

<220>

<221> MOD\_RES

<222> (14)..(14)

<223> Xaa is Asp or Glu

<220>

<221> MOD\_RES

<222> (15)..(15)

<223> Xaa is Phe or Tyr

<220>

<221> MOD\_RES

\_Sequence\_Listing\_9\_22\_16\_ST25

<222> (27)..(27)

<223> Xaa is Ala or Phe

<220>

<221> MOD\_RES

<222> (31)..(31)

<223> Xaa is Phe or Tyr

<400> 245

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Pro | Ser | Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Xaa | Xaa | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro | Glu | Asp | Xaa | Ala | Thr | Tyr | Xaa | Cys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 246

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD\_RES

<222> (3)..(3)

<223> Xaa is Gln or Ser

<220>

<221> MOD\_RES

<222> (7)..(7)

<223> Xaa is Leu or Val

<400> 246

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Xaa | Gly | Thr | Lys | Xaa | Glu | Ile | Lys |
| 1   |     |     |     | 5   |     |     |     | 10  |     |

<210> 247

<211> 23

<212> PRT

<213> Rattus norvegicus

\_Sequence\_Listing\_9\_22\_16\_ST25

<400> 247

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

Asp Arg Val Thr Leu Ser Cys  
20

<210> 248

<211> 15

<212> PRT

<213> Rattus norvegicus

<400> 248

Trp Tyr Gln Gln Lys Leu Gly Glu Ala Pro Lys Leu Leu Ile Tyr  
1 5 10 15

<210> 249

<211> 32

<212> PRT

<213> Rattus norvegicus

<400> 249

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

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

<210> 250

<211> 10

<212> PRT

<213> Rattus norvegicus

<400> 250

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys  
1 5 10

<210> 251

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<220>  
<223> Synthetic Construct

<400> 251

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

Asp Arg Val Thr Ile Thr Cys  
20

<210> 252  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 252

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
1 5 10 15

<210> 253  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 253

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 254  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 254

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

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

<210> 255  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 255

Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr  
1 5 10 15

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

<210> 256  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 256

Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Tyr Thr

\_Sequence\_Listing\_9\_22\_16\_ST25

1 5 10 15

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

<210> 257  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 257

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr  
1 5 10 15

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

<210> 258  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 258

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

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

<210> 259  
<211> 10  
<212> PRT  
<213> Artificial Sequence

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<223> Synthetic Construct

<400> 259

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
1 5 10

<210> 260

<211> 117

<212> PRT

<213> Rattus norvegicus

<400> 260

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

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

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

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

Lys Asn Arg Ala Thr Leu Thr Thr Asn Thr Ser Ser Asn Thr Ala Tyr  
65 70 75 80

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

Ala Arg Ile Asp Gly Phe Tyr Phe Asp Phe Trp Gly Gln Gly Val Met  
100 105 110

Val Thr Ala Ser Ser  
115

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 261  
<211> 106  
<212> PRT  
<213> Rattus norvegicus

<400> 261

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

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

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

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

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

Glu Asp Ala Ala Thr Tyr Phe Cys Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

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

<210> 262  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 262

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

Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 263  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 263

Glu 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 Glu His  
20 25 30

Ser Ile Tyr Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Ile Ile

\_Sequence\_Listing\_9\_22\_16\_ST25

35

40

45

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 264

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 264

Glu 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 Glu His  
20 25 30

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

Val Thr Val Ser Ser  
115

<210> 265  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 265

Glu 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 Glu His  
20 25 30

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

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

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

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys

\_Sequence\_Listing\_9\_22\_16\_ST25

85

90

95

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

Val Thr Val Ser Ser  
115

<210> 266  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 266

Glu 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 Glu His  
20 25 30

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

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

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

Val Thr Val Ser Ser  
115

<210> 267  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 267

Glu 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 Glu His  
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 268

\_Sequence\_Listing\_9\_22\_16\_ST25

<211> 117  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic Construct  
  
<400> 268

Glu 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 Glu His  
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 269  
<211> 117  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic Construct

Sequence\_Listing\_9\_22\_16\_ST25

<400> 269

Glu 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 Glu His  
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 270

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 270

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

Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 271  
<211> 106  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 271

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

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

Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile

\_Sequence\_Listing\_9\_22\_16\_ST25

35

40

45

Tyr Ser Thr Asp Asn Leu Gln Ser 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 Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

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

<210> 272

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 272

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

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

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

Tyr Ser Thr Asp Asn Leu Gln Ser Gly Val 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

\_Sequence\_Listing\_9\_22\_16\_ST25

Glu Asp Phe Ala Thr Tyr Phe Cys Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

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

<210> 273  
<211> 106  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 273

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

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

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

Tyr Ser Thr Asp Asn Leu Gln Ser 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 Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

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

<210> 274

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<220>  
<223> Synthetic Construct

<400> 274

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

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

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

Tyr Ser Thr Asp Asn Leu Gln Ser 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 Tyr Cys Tyr Gln Tyr Asn Asn Gly Phe Thr  
85 90 95

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

<210> 275  
<211> 106  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 275

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

\_Sequence\_Listing\_9\_22\_16\_ST25

1                    5                    10                    15

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

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

Tyr Ser Thr Asp Asn Leu Gln Ser 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 Tyr Gln Tyr Asn Asn Gly Phe Thr  
                  85                    90                    95

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

<210> 276  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 276

Glu 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 Glu His  
                  20                    25                    30

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

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

Val Thr Val Ser Ser  
115

<210> 277  
<211> 106  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 277

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

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

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

Tyr Ser Thr Asp Asn Leu Gln Ser Gly Val 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

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

<220>  
<223> Synthetic Construct

Asp Ser Tyr Met Ser  
1 5

<220>  
<223> Synthetic Construct

Asp Ala Tyr Met Ser  
1 5

<220>  
<223> Synthetic Construct

<400> 280

\_Sequence\_Listing\_9\_22\_16\_ST25

Glu Ser Tyr Met Ser  
1 5

<210> 281  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 281

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

Glu

<210> 282  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 282

Asp Met Tyr Pro Asp Asn Ala Asp Ser Ser Tyr Asn Gln Lys Phe Arg  
1 5 10 15

Glu

<210> 283  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

Sequence\_Listing\_9\_22\_16\_ST25

<400> 283

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Met | Tyr | Pro | Asp | Asn | Ala | Asp | Ala | Ser | Tyr | Asn | Gln | Lys | Phe | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Glu

<210> 284

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 284

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Met | Tyr | Pro | Asp | Asn | Gly | Asp | Ala | Ser | Tyr | Asn | Gln | Lys | Phe | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Glu

<210> 285

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 285

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Met | Tyr | Pro | Asp | Ser | Gly | Asp | Ser | Ser | Tyr | Asn | Gln | Lys | Phe | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Glu

<210> 286

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<220>  
<223> Synthetic Construct

<400> 286

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

Glu

<210> 287  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 287

Ala Pro Arg Trp Tyr Phe Ser Val  
1 5

<210> 288  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 288

Ala Pro Arg Trp Tyr Phe Ser Ala  
1 5

<210> 289  
<211> 8  
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 289

Ala Pro Arg Trp Tyr Phe Ala Val  
1 5

<210> 290

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 290

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

<210> 291

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 291

Tyr Thr Ser Arg Leu Arg Ser  
1 5

<210> 292

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 292

Sequence\_Listing\_9\_22\_16\_ST25

Gln Gln Gly His Thr Leu Pro Pro Thr  
1 5

<210> 293  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 293

Gln Gln Gly His Thr Leu Pro Ala Thr  
1 5

<210> 294  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 294

Gln Gln Gly His Thr Ala Pro Pro Thr  
1 5

<210> 295  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 295

Gln Gln Gly Ala Thr Leu Pro Pro Thr  
1 5

<210> 296

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<220>  
<223> Synthetic Construct

<400> 296

Gln Gln Gly His Ala Leu Pro Pro Thr  
1 5

<210> 297  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 297

Gln Gln Ala His Thr Leu Pro Pro Thr  
1 5

<210> 298  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 298

Gln Gln Gly His Thr Leu Ala Pro Thr  
1 5

<210> 299  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

\_Sequence\_Listing\_9\_22\_16\_ST25

<400> 299

Gln Ala Gly His Thr Leu Pro Pro Thr  
1 5

<210> 300

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 300

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

Sequence\_Listing\_9\_22\_16\_ST25

<210> 301  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 301

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 302  
<211> 117  
<212> PRT  
<213> Artificial Sequence

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<223> Synthetic Construct

<400> 302

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 303

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 303

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

\_Sequence\_Listing\_9\_22\_16\_ST25

1                    5                    10                    15

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

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
          50                    55                    60

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

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

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

Val Thr Val Ser Ser  
          115

<210> 304  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 304

Glu 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 Ser  
          20                    25                    30

Sequence\_Listing\_9\_22\_16\_ST25

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 305  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 305

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe

\_Sequence\_Listing\_9\_22\_16\_ST25

50

55

60

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

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

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

Val Thr Val Ser Ser  
115

<210> 306  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 306

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

Val Thr Val Ser Ser  
115

<210> 307  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 307

Glu 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 Ala  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

Val Leu Ala Pro Arg Trp Tyr Phe Ser Val Trp Gly Gln Gly Thr Leu

\_Sequence\_Listing\_9\_22\_16\_ST25

100

105

110

Val Thr Val Ser Ser  
115

<210> 308

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 308

Glu 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 Glu Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

Sequence\_Listing\_9\_22\_16\_ST25

<210> 309  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 309

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Ala Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 310  
<211> 117  
<212> PRT  
<213> Artificial Sequence

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<223> Synthetic Construct

<400> 310

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Ala Asp Ala Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 311

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 311

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

\_Sequence\_Listing\_9\_22\_16\_ST25

1                    5                    10                    15

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

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ala Ser Tyr Asn Gln Lys Phe  
                  50                    55                    60

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

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

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

Val Thr Val Ser Ser  
                  115

<210> 312  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 312

Glu 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 Ser  
                  20                    25                    30

Sequence\_Listing\_9\_22\_16\_ST25

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

Gly Asp Met Tyr Pro Asp Ser Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 313  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 313

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Ser Ser Ser Tyr Asn Gln Lys Phe

\_Sequence\_Listing\_9\_22\_16\_ST25

50

55

60

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

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

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

Val Thr Val Ser Ser  
115

<210> 314  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 314

Glu 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 Ala  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Ala Asp Ala Ser Tyr Asn Gln Lys Phe  
50 55 60

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

Val Thr Val Ser Ser  
115

<210> 315  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 315

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

Val Leu Ala Pro Arg Trp Tyr Phe Ser Val Trp Gly Gln Gly Thr Leu

\_Sequence\_Listing\_9\_22\_16\_ST25

100

105

110

Val Thr Val Ser Ser  
115

<210> 316  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 316

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 317  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 317

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 318  
<211> 117  
<212> PRT  
<213> Artificial Sequence

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<223> Synthetic Construct

<400> 318

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 319

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 319

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

\_Sequence\_Listing\_9\_22\_16\_ST25

1                    5                    10                    15

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

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
          50                    55                    60

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

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

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

Val Thr Val Ser Ser  
          115

<210> 320  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 320

Glu 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 Ser  
          20                    25                    30

\_Sequence\_Listing\_9\_22\_16\_ST25

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 321  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 321

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe

\_Sequence\_Listing\_9\_22\_16\_ST25

50

55

60

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

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

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

Val Thr Val Ser Ser  
115

<210> 322  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 322

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

Sequence\_Listing\_9\_22\_16\_ST25

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

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

Val Thr Val Ser Ser  
115

<210> 323  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 323

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

Val Leu Ala Pro Arg Trp Tyr Phe Ala Val Trp Gly Gln Gly Thr Leu

\_Sequence\_Listing\_9\_22\_16\_ST25

100

105

110

Val Thr Val Ser Ser  
115

<210> 324

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 324

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

\_Sequence\_Listing\_9\_22\_16\_ST25

<210> 325  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 325

Glu 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 Ser  
20 25 30

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe  
50 55 60

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

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

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

Val Thr Val Ser Ser  
115

<210> 326  
<211> 107  
<212> PRT  
<213> Artificial Sequence

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<223> Synthetic Construct

<400> 326

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

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

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

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

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

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

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

<210> 327

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 327

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr

\_Sequence\_Listing\_9\_22\_16\_ST25

20

25

30

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

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

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

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

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

<210> 328

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 328

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

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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 Gly His Thr Leu Pro Pro  
85 90 95

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

<210> 329

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 329

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

\_Sequence\_Listing\_9\_22\_16\_ST25

100

105

<210> 330  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 330

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

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

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

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

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

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

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

<210> 331  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

Sequence\_Listing\_9\_22\_16\_ST25

<400> 331

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

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

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

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

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

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

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

<210> 332

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 332

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

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

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

<210> 333  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 333

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

65                      70                      75                      80

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

<220>  
<223> Synthetic Construct

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

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

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

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

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

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

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

Sequence\_Listing\_9\_22\_16\_ST25

<210> 335  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 335

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

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

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

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

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

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

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

<210> 336  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 336

Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

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

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

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

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

<210> 337

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 337

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

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

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile

\_Sequence\_Listing\_9\_22\_16\_ST25

35

40

45

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

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

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

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

<210> 338

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 338

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

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

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

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

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

Sequence\_Listing\_9\_22\_16\_ST25

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

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

<210> 339  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 339

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

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

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

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

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

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

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

<210> 340

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<220>  
<223> Synthetic Construct

<400> 340

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

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

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

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

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

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

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

<210> 341  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 341

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

\_Sequence\_Listing\_9\_22\_16\_ST25

1                      5                      10                      15

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

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

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

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

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

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

<210> 342  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 342

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

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

<210> 343  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 343

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

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

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Ala Thr Leu Pro Pro

\_Sequence\_Listing\_9\_22\_16\_ST25

85

90

95

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

<210> 344

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 344

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

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

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

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

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

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

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

<210> 345

<211> 107

<212> PRT

\_Sequence\_Listing\_9\_22\_16\_ST25

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 345

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

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

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

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

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

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

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

<210> 346

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 346

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

Sequence\_Listing\_9\_22\_16\_ST25

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

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

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

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

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

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

<210> 347  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 347

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

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

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

Tyr Tyr Thr Ser Arg Leu Arg Ser Gly Val Pro Ser Arg Phe Ser Gly

\_Sequence\_Listing\_9\_22\_16\_ST25

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 Ala Gly His Thr Leu Pro Pro  
85 90 95

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

<210> 348

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 348

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

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

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

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

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

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

\_Sequence\_Listing\_9\_22\_16\_ST25

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

<210> 349  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Construct

<400> 349

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

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

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

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

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

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

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

<210> 350  
<211> 107  
<212> PRT  
<213> Artificial Sequence

\_Sequence\_Listing\_9\_22\_16\_ST25

<220>

<223> Synthetic Construct

<400> 350

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

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

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

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

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

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

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

<210> 351

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 351

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr

\_Sequence\_Listing\_9\_22\_16\_ST25

20

25

30

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

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

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

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

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

<210> 352  
<211> 244  
<212> PRT  
<213> Homo sapiens

<400> 352

Met Arg Trp Cys Leu Leu Leu Ile Trp Ala Gln Gly Leu Arg Gln Ala  
1 5 10 15

Pro Leu Ala Ser Gly Met Met Thr Gly Thr Ile Glu Thr Thr Gly Asn  
20 25 30

Ile Ser Ala Glu Lys Gly Gly Ser Ile Ile Leu Gln Cys His Leu Ser  
35 40 45

Ser Thr Thr Ala Gln Val Thr Gln Val Asn Trp Glu Gln Gln Asp Gln  
50 55 60

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

Sequence\_Listing\_9\_22\_16\_ST25

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

Ser Leu Thr Val Asn Asp Thr Gly Glu Tyr Phe Cys Ile Tyr His Thr  
100 105 110

Tyr Pro Asp Gly Thr Tyr Thr Gly Arg Ile Phe Leu Glu Val Leu Glu  
115 120 125

Ser Ser Val Ala Glu His Gly Ala Arg Phe Gln Ile Pro Leu Leu Gly  
130 135 140

Ala Met Ala Ala Thr Leu Val Val Ile Cys Thr Ala Val Ile Val Val  
145 150 155 160

Val Ala Leu Thr Arg Lys Lys Lys Ala Leu Arg Ile His Ser Val Glu  
165 170 175

Gly Asp Leu Arg Arg Lys Ser Ala Gly Gln Glu Glu Trp Ser Pro Ser  
180 185 190

Ala Pro Ser Pro Pro Gly Ser Cys Val Gln Ala Glu Ala Ala Pro Ala  
195 200 205

Gly Leu Cys Gly Glu Gln Arg Gly Glu Asp Cys Ala Glu Leu His Asp  
210 215 220

Tyr Phe Asn Val Leu Ser Tyr Arg Ser Leu Gly Asn Cys Ser Phe Phe  
225 230 235 240

Thr Glu Thr Gly

<210> 353

<211> 223

\_Sequence\_Listing\_9\_22\_16\_ST25

<212> PRT

<213> Homo sapiens

<400> 353

Met Met Thr Gly Thr Ile Glu Thr Thr Gly Asn Ile Ser Ala Glu Lys  
1 5 10 15

Gly Gly Ser Ile Ile Leu Gln Cys His Leu Ser Ser Thr Thr Ala Gln  
20 25 30

Val Thr Gln Val Asn Trp Glu Gln Gln Asp Gln Leu Leu Ala Ile Cys  
35 40 45

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

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

Asp Thr Gly Glu Tyr Phe Cys Ile Tyr His Thr Tyr Pro Asp Gly Thr  
85 90 95

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

His Gly Ala Arg Phe Gln Ile Pro Leu Leu Gly Ala Met Ala Ala Thr  
115 120 125

Leu Val Val Ile Cys Thr Ala Val Ile Val Val Val Ala Leu Thr Arg  
130 135 140

Lys Lys Lys Ala Leu Arg Ile His Ser Val Glu Gly Asp Leu Arg Arg  
145 150 155 160

Lys Ser Ala Gly Gln Glu Glu Trp Ser Pro Ser Ala Pro Ser Pro Pro  
165 170 175

Sequence\_Listing\_9\_22\_16\_ST25

Gly Ser Cys Val Gln Ala Glu Ala Ala Pro Ala Gly Leu Cys Gly Glu  
180 185 190

Gln Arg Gly Glu Asp Cys Ala Glu Leu His Asp Tyr Phe Asn Val Leu  
195 200 205

Ser Tyr Arg Ser Leu Gly Asn Cys Ser Phe Phe Thr Glu Thr Gly  
210 215 220

<210> 354

<211> 249

<212> PRT

<213> Homo sapiens

<400> 354

Leu His Cys Val Gly Asp Thr Tyr Pro Ser Asn Asp Arg Cys Cys His  
1 5 10 15

Glu Cys Arg Pro Gly Asn Gly Met Val Ser Arg Cys Ser Arg Ser Gln  
20 25 30

Asn Thr Val Cys Arg Pro Cys Gly Pro Gly Phe Tyr Asn Asp Val Val  
35 40 45

Ser Ser Lys Pro Cys Lys Pro Cys Thr Trp Cys Asn Leu Arg Ser Gly  
50 55 60

Ser Glu Arg Lys Gln Leu Cys Thr Ala Thr Gln Asp Thr Val Cys Arg  
65 70 75 80

Cys Arg Ala Gly Thr Gln Pro Leu Asp Ser Tyr Lys Pro Gly Val Asp  
85 90 95

Cys Ala Pro Cys Pro Pro Gly His Phe Ser Pro Gly Asp Asn Gln Ala  
100 105 110

Sequence\_Listing\_9\_22\_16\_ST25

Cys Lys Pro Trp Thr Asn Cys Thr Leu Ala Gly Lys His Thr Leu Gln  
115 120 125

Pro Ala Ser Asn Ser Ser Asp Ala Ile Cys Glu Asp Arg Asp Pro Pro  
130 135 140

Ala Thr Gln Pro Gln Glu Thr Gln Gly Pro Pro Ala Arg Pro Ile Thr  
145 150 155 160

Val Gln Pro Thr Glu Ala Trp Pro Arg Thr Ser Gln Gly Pro Ser Thr  
165 170 175

Arg Pro Val Glu Val Pro Gly Gly Arg Ala Val Ala Ala Ile Leu Gly  
180 185 190

Leu Gly Leu Val Leu Gly Leu Leu Gly Pro Leu Ala Ile Leu Leu Ala  
195 200 205

Leu Tyr Leu Leu Arg Arg Asp Gln Arg Leu Pro Pro Asp Ala His Lys  
210 215 220

Pro Pro Gly Gly Gly Ser Phe Arg Thr Pro Ile Gln Glu Glu Gln Ala  
225 230 235 240

Asp Ala His Ser Thr Leu Ala Lys Ile  
245