SEQUENCE LISTING

<110> SCHERING CORP.

<120> ENGINEERED ANTI-TSLPR ANTIBODIES

<130> BP06791PCT

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<150> 61/026,833
<151> 2008-02-07

<150> 61/042,030
<151> 2008-04-03

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<170> PatentIn version 3.5

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Lys Ala Phe Tyr Val Met Asp Tyr
1 5

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Tyr Thr Ser Arg Leu His Ser
1 5

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1 5

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Asn Tyr Ser Ile Thr Ser Gly Tyr Ser Trp Pro
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Tyr Ile His Ser Ser Gly Arg Thr Asn Tyr Asn Pro Ser Leu Lys Ser
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<210> 13
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1 5 10 15

Asp

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1 5

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<210> 21
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<400> 21

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1 5 10

<210> 22
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1 5 10

<210> 23
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1 5

<210> 24
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peptide"

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<210> 25
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<223> /note="Description of artificial sequence: Synthetic peptide"

<400> 25
Gly Phe Ser Leu Thr Ile Tyr Gly Leu His
1 5 10

<210> 26
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<213> Artificial Sequence

<220>
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<223> /note="Description of artificial sequence: Synthetic peptide"

<400> 26
Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met Ser
1 5 10 15

<210> 27
<211> 13
<212> PRT
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<220>
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<400> 27
Pro Tyr Tyr Asp Tyr Asp Gly Asn Trp Tyr Phe Asp Val
1 5 10

<210> 28
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 28
Ala Ser Gln Asn Val Gly Thr Asn Val Ala
1 5 10

<210> 29
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<400> 29
Ser Ala Ser Ser His Cys Ser
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<210> 30
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 30
Gln Gln Tyr Asn Arg Tyr Pro Leu Thr
1 5

<210> 31
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<400> 31
Gly Tyr Ser Phe Thr Gly Tyr Tyr Ile His
1 5 10

<210> 32
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<223> /note="Description of artificial sequence: Synthetic peptide"

<400> 32
Arg Ile Asn Pro Tyr Asn Gly Ala Thr Ile Tyr Asn Pro Asn Phe Lys
1 5 10 15

Asp

<210> 33
<211> 10
<212> PRT
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<400> 33
Ser Tyr Gly Tyr Val Asn Tyr Phe Asp Tyr
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<210> 34
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<400> 34
Ala Ser Gln Ser Ile Ser Asn Asn Leu His
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<210> 35
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Phe Gly Phe Gln Ser Ile Ser
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<210> 36
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<400> 36
Gln Gln Thr Asn Ser Trp Leu Thr
1 5

<210> 37
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<400> 37
Gly Tyr Thr Phe Thr Ser Tyr Asn Leu His
1 5 10

<210> 38
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<400> 38
Tyr Ile Tyr Pro Gly Leu Asn Gly Thr Leu Tyr Asn Gln Lys Phe Arg
1 5 10 15

Gly

<210> 39
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<220>
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<400> 39
Ser Asp Tyr Gly Lys Ala Trp Phe Ala Tyr
1 5 10

<210> 40
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<213> Artificial Sequence

<220>
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<400> 40
Ala Ser Gln Ser Ile Ala Thr Lys Ile His

1 5 10

<210> 41
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<400> 41
Leu Gly Ser Glu Ser Ile Ser
1 5

<210> 42
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<400> 42
Gln Gln Ser Asn Arg Tyr Pro Tyr Thr
1 5

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<400> 43
Gly Phe Thr Phe Asn Asn Tyr Trp Met Thr
1 5 10

<210> 44
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<400> 44
Ser Ile Thr Asp Thr Ser Gly Arg Thr Tyr Tyr Pro Asp Ser Val Lys
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Gly

<210> 45
<211> 8
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Thr Leu Gly Gly Ile Pro Arg Asp
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<210> 46
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<400> 46
Gly Ser Gln Asn Ile Asn Asn Tyr Leu Ala
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<210> 47
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<400> 47
Lys Thr Asn Ile Leu Gln Thr
1 5

<210> 48
<211> 8
<212> PRT
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<220>
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<400> 48
Tyr Gln Phe Asn Asn Gly Phe Thr
1 5

<210> 49
<211> 116
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<213> Mus sp.

<400> 49
Gln Val Leu Leu Lys Gln Ser Gly Pro Ser Leu Val Gln Pro Ser Gln
1 5 10 15

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

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

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

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

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

Lys Lys Ala Phe Tyr Val Met Asp Tyr Trp Gly Gln Gly Thr Ser Val
100 105 110

Thr Val Ser Ser
115

<210> 50
<211> 109
<212> PRT

<213> Mus sp.

<400> 50
Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Trp
85 90 95

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

<210> 51
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of artificial sequence: Synthetic polypeptide"

<400> 51

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

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

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

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

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

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

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

Thr Val Ser Ser
115

<210> 52
<211> 109
<212> PRT
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<223> /note="Description of artificial sequence: Synthetic polypeptide"

<400> 52
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 Ile 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 His 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 Asn Thr Leu Pro Trp
85 90 95

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

<210> 53
<211> 116
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<213> Artificial Sequence

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<222> (24)..(24)

<223> /replace="Val"

<220>
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<222> (24)..(24)
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<222> (49)..(49)
<223> /replace="Gly"

<220>
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<223> /note="Residues given in the sequence have no preference
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<223> /replace="Lys"

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<222> (64)..(64)
<223> /note="Residue given in the sequence has no preference
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<222> (67)..(67)
<223> /replace="Leu"

<220>
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<222> (67)..(67)
<223> /note="Residue given in the sequence has no preference
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<220>
<221> VARIANT
<222> (71)..(71)
<223> /replace="Gln"

<220>
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<222> (71)..(71)
<223> /note="Residue given in the sequence has no preference
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<220>
<221> VARIANT
<222> (76)..(76)
<223> /replace="Ser"

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<222> (76)..(76)
<223> /note="Residue given in the sequence has no preference
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<220>
<221> VARIANT
<222> (78)..(78)
<223> /replace="Val"

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<222> (78)..(78)
<223> /note="Residue given in the sequence has no preference
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<220>
<221> VARIANT
<222> (97)..(97)
<223> /replace="Lys"

<220>
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<222> (97)..(97)
<223> /note="Residue given in the sequence has no preference
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<222> (111)..(111)
<223> /replace="Ser"

<220>
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<222> (111)..(111)
<223> /note="Residue given in the sequence has no preference
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<400> 53
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

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

Thr Val Ser Ser
115

<210> 54
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of artificial sequence: Synthetic polypeptide"

<220>
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<222> (70)..(70)
<223> /replace="Asn"

<220>
<221> misc_feature
<222> (70)..(70)
<223> /note="Residue given in the sequence has no preference with respect to those in the annotations for said position"

<220>
<221> MOD_RES
<222> (92)..(92)
<223> /replace="Gln"

<220>
<221> misc_feature
<222> (92)..(92)
<223> /note="Residue given in the sequence has no preference with respect to those in the annotations for said position"

<400> 54
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 Ile 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 His 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 Asn Thr Leu Pro Trp
85 90 95

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

<210> 55
<211> 119
<212> PRT
<213> Mus sp.

<400> 55
Asp Val Gln Leu Gln Glu Ser Gly Pro Asp Leu Val Lys Pro Ser Gln
1 5 10 15

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

Tyr Ser Trp Pro Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp

35 40 45

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

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

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

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

Thr Leu Val Thr Val Ser Ala
115

<210> 56
<211> 109
<212> PRT
<213> Mus sp.

<400> 56
Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

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

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

Tyr Ser Ala Ser Tyr Arg Phe Ser Gly Val Pro Asp Arg Phe Thr Gly

50 55 60

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

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

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

<210> 57
<211> 119
<212> PRT
<213> Artificial Sequence

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<221> source
<223> /note="Description of artificial sequence: Synthetic polypeptide"

<400> 57
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 58
<211> 108
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<223> /note="Description of artificial sequence: Synthetic polypeptide"

<400> 58
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 Ala Asn
20 25 30

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

Tyr Ser Ala Ser Tyr Arg Phe 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 Tyr Asn Ser Tyr Pro Tyr
85 90 95

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

<210> 59
<211> 119
<212> PRT
<213> Mus sp.

<400> 59
Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Val Val Arg Pro Gly Val
1 5 10 15

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

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

Gly Ile Ile Arg Pro Ser Asn Gly Asn Thr Asn Cys Asp Gln Lys Phe
50 55 60

Lys Asp Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

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

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

Thr Leu Val Thr Val Ser Ala
115

<210> 60
<211> 109
<212> PRT
<213> Mus sp.

<400> 60
Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

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

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

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

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

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

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

<210> 61
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of artificial sequence: Synthetic polypeptide"

<400> 61
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

Ala Ile Ile Arg Pro Ser Asn Gly Asn Thr Asn Cys Asp Gln Lys Phe
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 62
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of artificial sequence: Synthetic polypeptide"

<400> 62
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

Tyr Ser Ala Ser Tyr Arg Tyr 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 Tyr Lys Ser Tyr Pro Trp
85 90 95

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

<210> 63

<211> 119
<212> PRT
<213> Mus sp.

<400> 63
Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
1 5 10 15

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

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

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

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

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

Lys Lys Ser Tyr Tyr Gly Tyr His Ala Met Gly Tyr Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser
115

<210> 64
<211> 109
<212> PRT
<213> Mus sp.

<400> 64
Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

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

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

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

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

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

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

<210> 65
<211> 121
<212> PRT
<213> Mus sp.

<400> 65
Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
1 5 10 15

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

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

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

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

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

Lys Pro Tyr Tyr Asp Tyr Asp Gly Asn Trp Tyr Phe Asp Val Trp Gly
100 105 110

Ala Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 66
<211> 109
<212> PRT
<213> Mus sp.

<400> 66
Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

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

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

Tyr Ser Ala Ser Ser His Cys Ser Glu Val Pro Asp Arg Phe Thr Gly
50 55 60

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

Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr Asn Arg Tyr Pro Leu
85 90 95

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

<210> 67
<211> 119
<212> PRT
<213> Mus sp.

<400> 67
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Arg Ala
1 5 10 15

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

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

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

Lys Asp Lys Ala Ser Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Phe
65 70 75 80

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

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

Thr Thr Leu Thr Val Ser Ser
115

<210> 68
<211> 108
<212> PRT
<213> Mus sp.

<400> 68
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Thr Pro Gly
1 5 10 15

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

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

Lys Phe Gly Phe Gln Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Gly Met Tyr Phe Cys Gln Gln Thr Asn Ser Trp Leu Thr
85 90 95

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

<210> 69
<211> 119
<212> PRT
<213> Mus sp.

<400> 69
Gln Ala Tyr Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala
1 5 10 15

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

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

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

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

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

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

Thr Leu Val Thr Val Ser Ala
115

<210> 70
<211> 109
<212> PRT
<213> Mus sp.

<400> 70
Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
1 5 10 15

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

Ile His Trp Tyr Gln Gln Arg Thr Asp His Ser Pro Arg Leu Leu Ile
35 40 45

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

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Asn Ser Val Glu Ser
65 70 75 80

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

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

<210> 71
<211> 117
<212> PRT
<213> Rattus sp.

<400> 71
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg

1 5 10 15

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

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

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

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

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

Thr Lys Thr Leu Gly Gly Ile Pro Arg Asp Trp Gly Gln Gly Val Met
100 105 110

Val Thr Val Ser Ser
115

<210> 72
<211> 108
<212> PRT
<213> Rattus sp.

<400> 72
Asn Ile Gln 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 Ile Asn Asn Tyr

20 25 30

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

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

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu His Cys
65 70 75 80

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

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

<210> 73
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of artificial sequence: Synthetic peptide"

<400> 73
Val Ile Trp Arg Ser Gly Ser Thr Asp Tyr Asn Ala Ala Phe Lys Ser
1 5 10 15

<210> 74
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of artificial sequence: Synthetic peptide"

<400> 74
Gln Gln Gly Gln Thr Leu Pro Trp Thr
1 5

<210> 75
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of artificial sequence: Synthetic 6xHis tag"

<400> 75
His His His His His His
1 5