SEQUENCE LISTING

<110> NOVARTIS AG

<120> BINDING MOLECULES AGAINST BCMA AND USES THEREOF

<130> NOV-003WO

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<150> 62/684,046
<151> 2018-06-12

<150> 62/679,611
<151> 2018-06-01

<160> 603

<170> PatentIn version 3.5

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Ser Gln Ser Ile Ser Ser Tyr
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1   5

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1   5

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Ser Tyr Ala Met Ser
1 5

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Gly Phe Thr Phe Ser Ser Tyr
1 5

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Gly Phe Thr Phe Ser Ser Tyr Ala
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1 5 10 15

Gly

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1 5 10 15

Gly

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<210> 18
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1   5

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Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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<400> 23
Ile Ser Gly Ser Gly Gly Ser Thr
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1 5 10

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<211> 14
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Ala Arg Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr
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Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
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<400> 27
Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr
1 5 10

<210> 28
<211> 9
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<400> 28
Ser Ser Asp Val Gly Gly Tyr Asn Tyr
1 5

<210> 29
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Asp Val Ser Asn Arg Leu Arg
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Asp Val Ser Asn Arg Leu Arg
1   5

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

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

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Asp Val Ser Asn Arg Leu Arg Gly Val Ser
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Asp Val Ser
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<210> 37
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Ser Ser Tyr Thr Ser Ser Ser Ala Leu Tyr Val
1   5   10

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for variant positions"

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Tyr Thr Ser Ser Ser Ala Leu Tyr
1   5

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<211> 5
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<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 39
Ser Tyr Gly Met His
1   5

<210> 40
<211> 7
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<220>
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Gly Phe Thr Val Ser Ser Tyr
1   5

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<400> 41
Gly Phe Thr Val Ser Ser Tyr Gly
1 5

<210> 42
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Gly Phe Thr Val Ser Ser Tyr Gly Met His
1 5 10

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for variant positions"

<400> 43
Val Ile Ser Tyr Thr Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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<400> 44
Val Ile Ser Tyr His Gly Ser His Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Ser Tyr Thr Gly Ser Asn
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<223> /replace="K" or "T" or "R" or "D" or "N" or "S"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="D" or "E"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="T" or "F" or "A" or "L"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="N" or "K"

<220>
<221> SITE
<222> (1)..(8)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 46
Ser Tyr His Gly Ser His Lys Gly
1 5

<210> 47
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="D"

<220>
<221> SITE
<222> (1)..(8)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 47
Ile Ser Tyr Thr Gly Ser Asn Lys
1   5

<210> 48
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="K" or "T" or "R" or "D" or "N" or "S"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D" or "E"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="T" or "F" or "A" or "L"

<220>
<221> VARIANT
<222> (7)..(7)
<223> /replace="N" or "K"

<220>
<221> SITE

<222> (1)..(8)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 48
Ile Ser Tyr His Gly Ser His Lys
1 5

<210> 49
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 49
Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
1 5 10

<210> 50
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="N" or "E"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="F" or "V" or "Y"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="Q" or "R" or "D"

<220>
<221> VARIANT
<222> (7)..(7)
<223> /replace="E" or "G" or "Q"

<220>
<221> VARIANT
<222> (8)..(8)
<223> /replace="Q" or "F"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="Q"

<220>
<221> VARIANT
<222> (10)..(10)
<223> /replace="K" or "D"

<220>
<221> VARIANT
<222> (11)..(11)
<223> /replace="P"

<220>
<221> VARIANT
<222> (12)..(12)
<223> /replace="Q" or "V" or "T"

<220>
<221> SITE
<222> (1)..(14)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 50
Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
1 5 10

<210> 51
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 51
Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
1 5 10 15

<210> 52
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="N" or "E"

<220>
<221> VARIANT
<222> (7)..(7)
<223> /replace="F" or "V" or "Y"

<220>
<221> VARIANT
<222> (8)..(8)
<223> /replace="Q" or "R" or "D"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="E" or "G" or "Q"

<220>
<221> VARIANT
<222> (10)..(10)
<223> /replace="Q" or "F"

<220>
<221> VARIANT
<222> (11)..(11)
<223> /replace="Q"

<220>

<221> VARIANT
<222> (12)..(12)
<223> /replace="K" or "D"

<220>
<221> VARIANT
<222> (13)..(13)
<223> /replace="P"

<220>
<221> VARIANT
<222> (14)..(14)
<223> /replace="Q" or "V" or "T"

<220>
<221> SITE
<222> (1)..(16)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 52
Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
1 5 10 15

<210> 53
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 53
Gln Gln Ser Tyr Ser Ser Pro Leu Thr
1 5

<210> 54
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 54
Gln Gln Ser Tyr Ser Thr Pro Leu Thr
1   5

<210> 55
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 55
Gln Gln Ser Tyr Gly Ser Pro Pro Thr
1   5

<210> 56
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 56
Gln Gln Ser Tyr Asp Ser Pro Leu Thr
1   5

<210> 57
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 57
Gln Gln Ser Tyr Tyr Ser Pro Leu Thr
1   5

<210> 58
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 58
Gln Gln Ser Tyr Tyr Ala Pro Leu Thr
1 5

<210> 59
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 59
Gln Gln Ser Tyr Ala Ser Pro Leu Thr
1 5

<210> 60
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 60
Gln Gln Ser Tyr Gly Ser Pro Leu Thr
1 5

<210> 61
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 61
Gln Gln Ser Tyr Asp Ala Pro Leu Thr
1 5

<210> 62
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 62
Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 63
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 63
Ala Ile Ser Glu Ser Gly Gly Arg Ala Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 64

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 64
Ala Ile Ser Gly Ser Gly Gly Arg Ala Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 65
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 65
Ala Ile Ser Glu Ser Gly Asp Val Glu Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 66
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 66
Ala Ile Ser Glu Ala Gly Glu Thr Thr Ser Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 67
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 67
Ala Ile Ser Glu His Gly His Tyr Thr Ser Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 68
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 68
Ala Ile Ser Gly Ser Gly His Thr Ala Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 69
<211> 17
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 69
Ala Ile Ser Gly Ser Gly Arg Thr His Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 70
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 70
Ala Ile Ser Ala Glu Gly Gly Val Arg Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 71
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 71
Ala Ile Ser Gly Ser Gly Gly Thr Thr Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 72
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 72
Ala Ile Ser Gly Ser Gly Ala Thr Thr Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 73
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 73
Ser Tyr Ser Ser Pro Leu
1 5

<210> 74
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 74
Ser Tyr Ser Thr Pro Leu
1 5

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 75
Ser Tyr Gly Ser Pro Pro
1 5

<210> 76
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 76
Ser Tyr Asp Ser Pro Leu
1 5

<210> 77
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 77
Ser Tyr Tyr Ser Pro Leu
1 5

<210> 78
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 78
Ser Tyr Tyr Ala Pro Leu
1 5

<210> 79
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 79
Ser Tyr Ala Ser Pro Leu
1 5

<210> 80
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 80
Ser Tyr Gly Ser Pro Leu
1 5

<210> 81
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 81
Ser Tyr Asp Ala Pro Leu
1   5

<210> 82
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 82
Ser Gly Ser Gly Gly Ser
1   5

<210> 83
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 83
Ser Glu Ser Gly Gly Arg
1   5

<210> 84
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 84
Ser Gly Ser Gly Gly Arg
1   5

<210> 85
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 85
Ser Glu Ser Gly Asp Val
1 5

<210> 86
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 86
Ser Glu His Gly His Tyr
1 5

<210> 87
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 87
Ser Gly Ser Gly His Thr
1 5

<210> 88
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 88
Ser Gly Ser Gly Arg Thr
1   5

<210> 89
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 89
Ser Ala Glu Gly Gly Val
1   5

<210> 90
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 90
Ser Gly Ser Gly Gly Thr
1   5

<210> 91
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 91
Ser Gly Ser Gly Ala Thr
1   5

<210> 92
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 92
Ile Ser Gly Ser Gly Gly Ser Thr
1   5

<210> 93
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 93
Ile Ser Glu Ser Gly Gly Arg Ala
1   5

<210> 94
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 94
Ile Ser Gly Ser Gly Gly Arg Ala
1   5

<210> 95
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 95
Ile Ser Glu Ser Gly Asp Val Glu
1 5

<210> 96
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 96
Ile Ser Glu His Gly His Tyr Thr
1 5

<210> 97
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 97
Ile Ser Gly Ser Gly His Thr Ala
1 5

<210> 98
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 98
Ile Ser Gly Ser Gly Arg Thr His
1   5

<210> 99
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 99
Ile Ser Ala Glu Gly Gly Val Arg
1   5

<210> 100
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 100
Ile Ser Gly Ser Gly Gly Thr Thr
1   5

<210> 101
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 101
Ile Ser Gly Ser Gly Ala Thr Thr
1   5

<210> 102
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 102
Asp Val Ser Asn Arg Leu Arg
1   5

<210> 103
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 103
Asp Val Ser Asn Arg Pro Ser
1   5

<210> 104
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 104
Glu Val Ser Asn Arg Leu Ser
1   5

<210> 105
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 105
Glu Val Ser Asn Arg Leu Arg
1 5

<210> 106
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 106
Asp Val Ser Asn Arg Pro Trp
1 5

<210> 107
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 107
Asp Val Ser Asn Arg Leu Ser
1 5

<210> 108
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 108
Asp Val Ser Asn Arg Ala Trp
1 5

<210> 109
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 109
Glu Val Ser Asn Arg Leu Gly
1 5

<210> 110
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 110
Ser Ser Tyr Thr Ser Ser Ser Ala Leu Tyr Val
1 5 10

<210> 111
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 111
Ser Ser Tyr Thr Ser Ser Ser Thr Leu Tyr Val
1   5   10

<210> 112
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 112
Val Ile Ser Tyr Thr Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 113
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 113
Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 114
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 114
Val Ile Ser Tyr His Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 115
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 115
Val Ile Ser Tyr Lys Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 116
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 116
Val Ile Ser Tyr Thr Gly Thr Lys Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 117
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 117
Val Ile Ser Tyr Arg Gly Phe Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 118
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 118
Val Ile Ser Tyr Lys Gly Ser His Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 119
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 119
Val Ile Ser Tyr Asp Asp Ala His Lys Tyr Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

<210> 120
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 120
Val Ile Ser Tyr Asn Asp Leu Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 121
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 121
Val Ile Ser Tyr Ser Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 122
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 122
Val Ile Ser Tyr Thr Gly Ala Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 123
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 123
Val Ile Ser Tyr Asn Asp Ala Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 124
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 124
Val Ile Ser Tyr Asp Glu Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 125
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 125
Val Ile Ser Tyr Asp Asp Ala Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 126
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 126
Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Gln Asp Val
1 5 10

<210> 127
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 127
Ser Gly Tyr Ala Leu His Asp Gln Tyr Lys Pro Val Asp Val
1 5 10

<210> 128
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 128
Ser Gly Tyr Ala Leu His Asp Phe Gln Asp Pro Thr Asp Val
1 5 10

<210> 129
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 129
Ser Gly Tyr Asn Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
1 5 10

<210> 130
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 130
Ser Gly Tyr Glu Phe His Glu Asp Tyr Tyr Gly Leu Asp Val
1 5 10

<210> 131
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 131
Ser Gly Tyr Glu Phe Gln Gly Asp Tyr Tyr Gly Leu Asp Val
1   5   10

<210> 132
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 132
Ser Gly Tyr Glu Leu Arg Asp Asp Tyr Tyr Gly Leu Asp Val
1   5   10

<210> 133
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 133
Ser Gly Tyr Glu Val Asp Gln Asp Tyr Tyr Gly Leu Asp Val
1   5   10

<210> 134
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 134
Ser Gly Tyr Ala Tyr Asp Gly Asp Tyr Tyr Gly Leu Asp Val
1   5   10

<210> 135
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 135
Glu Val Ser
1

<210> 136
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 136
Tyr Thr Ser Ser Ser Ala Leu Tyr
1   5

<210> 137
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 137
Tyr Thr Ser Ser Ser Thr Leu Tyr
1   5

<210> 138
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 138
Gly Phe Thr Val Ser Ser Tyr
1 5

<210> 139
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 139
Gly Phe Thr Leu Ser Ser Tyr
1 5

<210> 140
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 140
Ser Tyr Thr Gly Ser Asn
1 5

<210> 141
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 141
Ser Tyr Asp Gly Ser Asn
1   5

<210> 142
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 142
Ser Tyr His Gly Ser Asn
1   5

<210> 143
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 143
Ser Tyr Lys Gly Ser Asn
1   5

<210> 144
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 144
Ser Tyr Thr Gly Thr Lys
1   5

<210> 145
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 145
Ser Tyr Arg Gly Phe Asn
1   5

<210> 146
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 146
Ser Tyr Lys Gly Ser His
1   5

<210> 147
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 147
Ser Tyr Asp Asp Ala His
1   5

<210> 148
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 148
Ser Tyr Asn Asp Leu Asn
1 5

<210> 149
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 149
Ser Tyr Ser Gly Ser Asn
1 5

<210> 150
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 150
Ser Tyr Thr Gly Ala Asn
1 5

<210> 151
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 151
Ser Tyr Asn Asp Ala Asn
1   5

<210> 152
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 152
Ser Tyr Asp Glu Ser Asn
1   5

<210> 153
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 153
Ser Tyr Asp Asp Ala Asn
1   5

<210> 154
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 154
Asp Val Ser Asn Arg Leu Arg Gly Val Ser
1   5   10

<210> 155
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 155
Asp Val Ser Asn Arg Pro Ser Gly Val Ser
1   5   10

<210> 156
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 156
Glu Val Ser Asn Arg Leu Ser Gly Val Ser
1   5   10

<210> 157
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 157
Glu Val Ser Asn Arg Leu Arg Gly Val Ser
1   5   10

<210> 158
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 158
Asp Val Ser Asn Arg Pro Trp Gly Val Ser
1 5 10

<210> 159
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 159
Asp Val Ser Asn Arg Leu Ser Gly Val Ser
1 5 10

<210> 160
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 160
Asp Val Ser Asn Arg Ala Trp Gly Val Ser
1 5 10

<210> 161
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 161
Glu Val Ser Asn Arg Leu Gly Gly Val Ser
1 5 10

<210> 162
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 162
Gly Phe Thr Val Ser Ser Tyr Gly
1 5

<210> 163
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 163
Gly Phe Thr Phe Ser Ser Tyr Gly
1 5

<210> 164
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 164
Gly Phe Thr Leu Ser Ser Tyr Gly
1   5

<210> 165
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 165
Ile Ser Tyr Thr Gly Ser Asn Lys
1   5

<210> 166
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 166
Ile Ser Tyr Asp Gly Ser Asn Lys
1   5

<210> 167
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 167
Ile Ser Tyr His Gly Ser Asn Lys
1   5

<210> 168
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 168
Ile Ser Tyr Lys Gly Ser Asn Lys
1 5

<210> 169
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 169
Ile Ser Tyr Thr Gly Thr Lys Lys
1 5

<210> 170
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 170
Ile Ser Tyr Arg Gly Phe Asn Lys
1 5

<210> 171
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 171
Ile Ser Tyr Lys Gly Ser His Lys
1   5

<210> 172
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 172
Ile Ser Tyr Asp Asp Ala His Lys
1   5

<210> 173
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 173
Ile Ser Tyr Asn Asp Leu Asn Lys
1   5

<210> 174
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 174
Ile Ser Tyr Ser Gly Ser Asn Lys
1   5

<210> 175
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 175
Ile Ser Tyr Thr Gly Ala Asn Lys
1   5

<210> 176
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 176
Ile Ser Tyr Asn Asp Ala Asn Lys
1   5

<210> 177
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 177
Ile Ser Tyr Asp Glu Ser Asn Lys
1   5

<210> 178
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 178
Ile Ser Tyr Asp Asp Ala Asn Lys
1 5

<210> 179
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 179
Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Gln Asp Val
1 5 10 15

<210> 180
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 180
Gly Gly Ser Gly Tyr Ala Leu His Asp Gln Tyr Lys Pro Val Asp Val
1 5 10 15

<210> 181
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 181
Gly Gly Ser Gly Tyr Ala Leu His Asp Phe Gln Asp Pro Thr Asp Val
1   5   10   15

<210> 182
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 182
Gly Gly Ser Gly Tyr Asn Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
1   5   10   15

<210> 183
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 183
Gly Gly Ser Gly Tyr Glu Phe His Glu Asp Tyr Tyr Gly Leu Asp Val
1   5   10   15

<210> 184
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 184
Gly Gly Ser Gly Tyr Glu Phe Gln Gly Asp Tyr Tyr Gly Leu Asp Val
1   5   10   15

<210> 185
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 185
Gly Gly Ser Gly Tyr Glu Leu Arg Asp Asp Tyr Tyr Gly Leu Asp Val
1   5   10   15

<210> 186
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 186
Gly Gly Ser Gly Tyr Glu Val Asp Gln Asp Tyr Tyr Gly Leu Asp Val
1   5   10   15

<210> 187
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 187
Gly Gly Ser Gly Tyr Ala Tyr Asp Gly Asp Tyr Tyr Gly Leu Asp Val
1   5   10   15

<210> 188
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 188
Gly Phe Thr Val Ser Ser Tyr Gly Met His
1 5 10

<210> 189
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 189
Gly Phe Thr Phe Ser Ser Tyr Gly Met His
1 5 10

<210> 190
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 190
Gly Phe Thr Leu Ser Ser Tyr Gly Met His
1 5 10

<210> 191
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 191
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 Ser Ile Ser Ser Tyr
            20   25   30

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Ser Ser Pro Leu
                85   90   95

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

<210> 192
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 192
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1   5   10   15

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

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Ser Thr Pro Leu
                85                  90                  95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
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<210> 193
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 193

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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 Ser Ile Ser Ser Tyr
            20                  25                  30

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

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60
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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 Ser Tyr Gly Ser Pro Pro
85 90 95

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

<210> 194
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 194
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 Ser Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Asp Ser Pro Leu
85 90 95

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

<210> 195
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 195
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 Ser Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Tyr Ser Pro Leu
85 90 95

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

<210> 196
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 196
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 Ser Ile Ser Ser Tyr
            20   25   30

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Tyr Ala Pro Leu
                85   90   95

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

<210> 197
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 197
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 Ser Ile Ser Ser Tyr
            20   25   30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile

```
        35                  40                  45

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Ala Ser Pro Leu
                85                  90                  95

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


<210> 198
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 198
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 Ser Ile Ser Ser Tyr
            20                  25                  30

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Gly Ser Pro Leu
85 90 95

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

<210> 199
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 199
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 Ser Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Asp Ala Pro Leu
85 90 95

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

<210> 200
<211> 111
<212> PRT

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 200
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

Met Ile Tyr Asp Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

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

<210> 201
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 201
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

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

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65                  70                  75                  80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
                85                  90                  95

Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
            100                 105                 110
```

<210> 202
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 202

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

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

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

Met Ile Tyr Glu Val Ser Asn Arg Leu Ser Gly Val Ser Asn Arg Phe
    50                  55                  60
```

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
100 105 110

<210> 203
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 203
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

Met Ile Tyr Glu Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
50 55 60

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

Ser Ala Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu

100 105 110

<210> 204
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 204
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

Met Ile Tyr Glu Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
50 55 60

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
100 105 110

<210> 205
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

polypeptide"

<400> 205
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

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

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

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

<210> 206
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 206
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

Met Ile Tyr Asp Val Ser Asn Arg Leu Ser Gly Val Ser Asn Arg Phe
50 55 60

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
100 105 110

<210> 207
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 207
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

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

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
100 105 110

<210> 208
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 208
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

Met Ile Tyr Asp Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
50 55 60

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

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

<210> 209
<211> 111

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 209
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

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

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

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

<210> 210
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 210
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

Met Ile Tyr Glu Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
    50   55   60

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65   70   75   80

Gln Ala Glu Asp Glu Ala Tyr Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
                85   90   95

Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
            100   105   110

<210> 211
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 211
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1   5   10   15

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

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

Met Ile Tyr Glu Val Ser Asn Arg Leu Ser Gly Val Ser Asn Arg Phe

```
    50                  55                  60

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65                  70                  75                  80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
                85                  90                  95

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

<210> 212
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 212
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1               5                   10                  15

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

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

Met Ile Tyr Glu Val Ser Asn Arg Leu Gly Gly Val Ser Asn Arg Phe
    50                  55                  60

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65                  70                  75                  80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
                85                  90                  95
```

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

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 213
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 214
<211> 121
<212> PRT

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 214
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Glu Ser Gly Gly Arg Ala Ala Tyr Ala Asp Ser Val
50 55 60

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 215
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 215
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

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

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
            100   105   110

Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 216
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 216
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

Ser Ala Ile Ser Glu Ser Gly Asp Val Glu Ala Tyr Ala Asp Ser Val
50 55 60

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 217
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 217
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Glu Ala Gly Glu Thr Thr Ser Tyr Ala Asp Ser Val

```
    50                  55                  60

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210> 218
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 218
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

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

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

Ser Ala Ile Ser Glu His Gly His Tyr Thr Ser Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
            100                 105                 110


Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210> 219
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 219
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


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


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


Ser Ala Ile Ser Gly Ser Gly His Thr Ala Ala Tyr Ala Asp Ser Val
    50                  55                  60


Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
            100                 105                 110
```

```
Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210> 220
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 220
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


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


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


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


Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
            100                 105                 110


Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210> 221
<211> 121
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<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 221
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Ala Glu Gly Gly Val Arg Ala Tyr Ala Asp Ser Val
50 55 60

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 222
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 222
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

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

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
            100   105   110

Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 223
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 223
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

```
            20                  25                  30

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

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

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210> 224
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 224
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 Val Ser Ser Tyr
            20                  25                  30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110

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


<210> 225
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 225
Gln Val Gln Leu Gln 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 Ser Ser Tyr
            20                  25                  30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
100 105 110

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

<210> 226
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 226
Gln Ala Gln Leu Gln Ser Ser Glu 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 Ser Ser Tyr
20 25 30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
100 105 110

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


<210> 227
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 227
Gln Val Gln Leu Gln Ser Ser Glu 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 Ser Ser Tyr
            20                  25                  30


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


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


Lys Gly 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


Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110


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


<210> 228
```

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 228
Gln Ala Gln Leu Gln Ser 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 Ser Ser Tyr
20 25 30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
100 105 110

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

<210> 229
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

polypeptide"

<400> 229
Gln Val Gln Leu Gln Asp Ser Glu 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 Ser Ser Tyr
            20   25   30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100   105   110

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

<210> 230
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 230
Gln Ala Gln Leu Gln Ser Ser Glu 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 Ser Ser Tyr
            20                  25                  30


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


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


Lys Gly 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


Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Gln Asp Val
            100                 105                 110


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


<210> 231
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 231
Gln Ala Gln Leu Gln Gly 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 Ser Ser Tyr
            20                  25                  30


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

Ala Val Ile Ser Tyr Lys Gly Ser His Lys Tyr Tyr Ala Asp Ser Val
    50   55   60

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100   105   110

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

<210> 232
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 232
Gln Ala Gln Leu Gln Ser 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 Val Ser Ser Tyr
            20   25   30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
100 105 110

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

<210> 233
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 233
Gln Val Gln Leu Gln Ser 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 Ser Ser Tyr
20 25 30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val

100 105 110

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

<210> 234
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 234
Gln Ala Gln Leu Gln Gly 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 Ser Ser Tyr
20 25 30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
100 105 110

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

<210> 235
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 235
Gln Val Gln Leu Gln Gly 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 Ser Ser Tyr
20 25 30

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

Ala Val Ile Ser Tyr Asp Asp Ala His Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Gln Tyr Lys Pro Val Asp Val
100 105 110

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

<210> 236
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 236
Gln Ala Gln Leu Gln Glu Ser Glu Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15

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

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

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

Lys Gly 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

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

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

<210> 237
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 237
Gln Val Gln Leu Gln Ser 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 Val Ser Ser Tyr
            20   25   30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Gln Tyr Lys Pro Val Asp Val
            100   105   110

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

<210> 238
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 238
Gln Val Gln Leu Gln Gly 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 Ser Ser Tyr
            20   25   30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Asn Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100   105   110

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

<210> 239
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 239
Gln Ala Gln Leu Gln Arg 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 Ser Ser Tyr
            20   25   30

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

Ala Val Ile Ser Tyr Asp Asp Ala His Lys Tyr Tyr Ala Asp Ser Val
    50   55   60

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Gln Tyr Lys Pro Val Asp Val
100 105 110

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

<210> 240
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 240
Gln Val Gln Leu Gln Ser Ser Glu Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Glu Phe His Glu Asp Tyr Tyr Gly Leu Asp Val
100 105 110

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

<210> 241
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 241
Gln Ala Gln Leu Gln Gly Ser Glu 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 Ser Ser Tyr
20 25 30

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

Ala Val Ile Ser Tyr Asp Asp Ala His Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Gln Tyr Lys Pro Val Asp Val
100 105 110

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

<210> 242
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 242
Gln Val Gln Leu Gln Ser 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 Ser Ser Tyr
20 25 30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Glu Phe Gln Gly Asp Tyr Tyr Gly Leu Asp Val
100 105 110

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

<210> 243
<211> 123
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 243
Gln Val Gln Leu Gln Ser Ser Glu 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 Ser Ser Tyr
20 25 30

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

Ala Val Ile Ser Tyr Asn Asp Ala Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly 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

Gly Gly Ser Gly Tyr Glu Leu Arg Asp Asp Tyr Tyr Gly Leu Asp Val
100 105 110

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

<210> 244
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 244
Gln Ala Gln Leu Gln Ser Ser Glu 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 Ser Ser Tyr
            20                  25                  30


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


Ala Val Ile Ser Tyr Asp Glu Ser Asn Lys Tyr Tyr Ala Asp Ser Val
    50                  55                  60


Lys Gly 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


Gly Gly Ser Gly Tyr Glu Val Asp Gln Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110


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


<210> 245
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 245
Gln Val Gln Leu Gln 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 Ser Ser Tyr
            20                  25                  30


Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
```

```
        35                  40                  45

Ala Val Ile Ser Tyr Asp Asp Ala His Lys Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Gln Tyr Lys Pro Val Asp Val
            100                 105                 110

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


<210> 246
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 246
Gln Val Gln Leu Gln Gly 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 Val Ser Ser Tyr
            20                  25                  30

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

Ala Val Ile Ser Tyr Asp Asp Ala Asn Lys Tyr Tyr Ala Asp Ser Val
    50                  55                  60
```

```
Lys Gly Arg Phe Thr Ile Ser Arg Asp Ser 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


Gly Gly Ser Gly Tyr Ala Tyr Asp Gly Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110


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


<210> 247
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 247
Gln Val Gln Leu Gln Ser Ser Glu 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 Ser Ser Tyr
            20                  25                  30


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


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


Lys Gly 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
```

```
Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gly
        115                 120                 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
    130                 135                 140

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
145                 150                 155                 160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                165                 170                 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
            180                 185                 190

Met Ile Tyr Glu Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
        195                 200                 205

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
    210                 215                 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
225                 230                 235                 240

Ser Ala Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
                245                 250                 255
```

<210> 248
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 248
Gln Ala Gln Leu Gln Ser 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 Ser Ser Tyr
            20   25   30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100   105   110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gly
        115   120   125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
    130   135   140

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
145   150   155   160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                165   170   175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
            180   185   190

```
Met Ile Tyr Glu Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
        195                 200                 205


Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
    210                 215                 220


Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
225                 230                 235                 240


Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
                245                 250                 255


<210> 249
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 249
Gln Val Gln Leu Gln Asp Ser Glu 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 Ser Ser Tyr
            20                  25                  30


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


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


Lys Gly 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
```

```
Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gly
        115                 120                 125


Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
    130                 135                 140


Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
145                 150                 155                 160


Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                165                 170                 175


Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
            180                 185                 190


Met Ile Tyr Asp Val Ser Asn Arg Pro Trp Gly Val Ser Asn Arg Phe
        195                 200                 205


Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
    210                 215                 220


Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
225                 230                 235                 240


Ser Ala Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Met
                245                 250                 255


<210> 250
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"
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<400> 250
Gln Ala Gln Leu Gln Ser Ser Glu 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 Ser Ser Tyr
            20   25   30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Gln Asp Val
            100   105   110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gly
        115   120   125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
    130   135   140

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
145   150   155   160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                165   170   175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
            180   185   190

```
Met Ile Tyr Asp Val Ser Asn Arg Leu Ser Gly Val Ser Asn Arg Phe
        195                 200                 205


Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
    210                 215                 220


Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
225                 230                 235                 240


Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
                245                 250                 255


<210> 251
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 251
Gln Ala Gln Leu Gln Gly 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 Ser Ser Tyr
            20                  25                  30


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


Ala Val Ile Ser Tyr Lys Gly Ser His Lys Tyr Tyr Ala Asp Ser Val
    50                  55                  60


Lys Gly 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
```

```
Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gly
        115                 120                 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
    130                 135                 140

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
145                 150                 155                 160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                165                 170                 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
            180                 185                 190

Met Ile Tyr Asp Val Ser Asn Arg Pro Trp Gly Val Ser Asn Arg Phe
        195                 200                 205

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
    210                 215                 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
225                 230                 235                 240

Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
                245                 250                 255
```

<210> 252
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 252
Gln Val Gln Leu Gln Ser Ser Glu 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 Ser Ser Tyr
            20   25   30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100   105   110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gly
        115   120   125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
    130   135   140

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
145   150   155   160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                165   170   175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
            180   185   190

Met Ile Tyr Asp Val Ser Asn Arg Pro Trp Gly Val Ser Asn Arg Phe
195 200 205

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
210 215 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
225 230 235 240

Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
245 250 255

<210> 253
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 253
Gln Ala Gln Leu Gln Ser 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 Val Ser Ser Tyr
20 25 30

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

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

Lys Gly 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

```
Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gly
        115                 120                 125


Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
    130                 135                 140


Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
145                 150                 155                 160


Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                165                 170                 175


Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
            180                 185                 190


Met Ile Tyr Asp Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
        195                 200                 205


Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
    210                 215                 220


Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
225                 230                 235                 240


Ser Ala Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
                245                 250                 255


<210> 254
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"
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<400> 254
Gln Val Gln Leu Gln Ser 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 Ser Ser Tyr
            20   25   30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100   105   110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gly
        115   120   125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
    130   135   140

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
145   150   155   160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                165   170   175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
            180   185   190

Met Ile Tyr Asp Val Ser Asn Arg Ala Trp Gly Val Ser Asn Arg Phe
195 200 205

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
210 215 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
225 230 235 240

Ser Ala Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
245 250 255

<210> 255
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 255
Gln Ala Gln Leu Gln Gly 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 Ser Ser Tyr
20 25 30

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

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

Lys Gly 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

```
Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gly
        115                 120                 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
    130                 135                 140

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
145                 150                 155                 160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                165                 170                 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
            180                 185                 190

Met Ile Tyr Glu Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
        195                 200                 205

Ser Gly Ser Lys Phe Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
    210                 215                 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
225                 230                 235                 240

Ser Thr Leu Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu
                245                 250                 255
```

<210> 256
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 256
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala
1   5   10   15

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

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

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

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

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

Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
            100   105   110

Thr Thr Leu Thr Val Ser Ser
        115

<210> 257
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 257
Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1   5   10   15

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met

```
            20                  25                  30

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

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Gly Met Glu Ala Glu
65                  70                  75                  80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Phe Thr
                85                  90                  95

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


<210> 258
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 258
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Lys Gly
1               5                   10                  15

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

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

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

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


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


Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
            100                 105                 110


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


<210> 259
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 259
Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu
1               5                   10                  15


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


Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
        35                  40                  45


Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg Phe
    50                  55                  60


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


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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 260
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 260
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala
1 5 10 15

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

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

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

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

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

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

Thr Thr Leu Thr Val Ser Ser
115

<210> 261
<211> 106

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 261
Gln Ile Val Leu Ser Gln Ser Pro Ala Ile Leu Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

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

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

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

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Pro Thr
85 90 95

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

<210> 262
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 262
Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

```
Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Ser Tyr Met
            20                  25                  30

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

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65                  70                  75                  80

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

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


<210> 263
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 263
Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1               5                   10                  15

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

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

Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Asn Gln Lys Val
```

```
    50                  55                  60

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

Leu Gln Met Asp Ser Leu Arg Pro Glu Asp Thr Gly Val Tyr Phe Cys
                85                  90                  95

Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Pro Val Thr Val Ser Ser
        115


<210> 264
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 264
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 Ser Ala Ser Ser Ser Val Ser Tyr Met
            20                  25                  30

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

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

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

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

Phe Gly Gln Gly Thr Lys Leu Gln Ile Thr
100 105

<210> 265
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 265
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 Lys Phe Ser Gly Tyr
20 25 30

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

Ala Val Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Val Asp Ser Val
50 55 60

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

Leu Val Thr Val Ser Ser
115

<210> 266
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 266
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

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

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

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

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

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

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

<210> 267
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 267
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

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

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

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

Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala
            100   105   110

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

<210> 268
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 268
Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1   5   10   15

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

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

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
    50   55   60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Ile Gly Ala Gln Ala
65   70   75   80

Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn Leu Trp
                85   90   95

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

<210> 269
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 269
Asp Ile Lys Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala
1   5   10   15

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

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

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

Lys Asp Lys Ala Thr Leu Thr Thr Asp Lys Ser Ser Ser Thr Ala Tyr

65 70 75 80

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

Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Leu Thr Val Ser Ser
115

<210> 270
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 270
Asp Ile Gln Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

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

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

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

Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr Phe
85 90 95

Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 271
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 271
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala
100 105 110

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

<210> 272
<211> 125
<212> PRT

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 272
Glu Val Lys Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Lys Gly
1 5 10 15

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
100 105 110

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

<210> 273
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 273
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Trp
            100   105   110

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

<210> 274
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 274
Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1   5   10   15

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

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

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

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

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

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

<210> 275
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 275
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

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

Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr

65 70 75 80

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
100 105 110

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

<210> 276
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 276
Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1 5 10 15

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

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

Leu Ile Gly Gly Thr Lys Phe Leu Ala Pro Gly Thr Pro Ala Arg Phe
50 55 60

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

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

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

<210> 277
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 277
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

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

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

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

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

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

Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 278
<211> 106
<212> PRT

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 278
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

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

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

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

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

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Phe Thr
85 90 95

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

<210> 279
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 279
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Tyr Cys Ala Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
            100   105   110

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

<210> 280
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 280
Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1   5   10   15

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

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

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

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

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
            100   105

<210> 281
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 281
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

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

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

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr

```
                85                  90                  95

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
            100                 105                 110

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

<210> 282
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 282

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

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

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

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
    50                  55                  60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65                  70                  75                  80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
            100                 105
```

<210> 283
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 283
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
100 105 110

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

<210> 284
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 284
Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1 5 10 15

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

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

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg Phe
50 55 60

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

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 285
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 285
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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


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


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


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


Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe
            100                 105                 110


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


<210> 286
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 286
Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1               5                   10                  15


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


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


Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg Phe
    50                  55                  60
```

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly Ala
65 70 75 80

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

His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 287
<211> 101
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 287
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 Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

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

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

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

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

Phe Gly Gln Gly Thr

100

<210> 288
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 288
Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

Leu Gln Met Asp Ser Leu Arg Pro Glu Asp Thr Gly Val Tyr Phe Cys
85 90 95

Ala Arg Tyr Tyr Asp Asp His Tyr Ser Leu Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Pro Val Thr Val Ser Ser
115

<210> 289
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 289
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1   5   10   15

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

Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Asn Leu Glu Trp Met
        35   40   45

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

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

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

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

Gly Gln Gly Thr Thr Leu Thr Val Phe Ser
        115   120

<210> 290
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 290

```
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 Arg Asn 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 Lys 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 Gly Asn Thr Leu Pro Trp
                85                  90                  95


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


<210> 291
<211> 257
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 291
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


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


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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
            100                 105                 110

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

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

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
145                 150                 155                 160

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr Ser Asn Tyr Ala Asn
                165                 170                 175

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
            180                 185                 190

Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg Phe Ser Gly Ser Leu
        195                 200                 205

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Ala Gln Pro Glu Asp
    210                 215                 220

Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn Leu Trp Val Phe
225                 230                 235                 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ser His His His His His
```

245 250 255

His

<210> 292
<211> 254
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 292
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe
100 105 110

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

```
Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly
    130                 135                 140

Ser Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
145                 150                 155                 160

Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr
                165                 170                 175

Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ser Pro Arg
            180                 185                 190

Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg
        195                 200                 205

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly
    210                 215                 220

Ala Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser
225                 230                 235                 240

Asn His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
                245                 250


<210> 293
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 293
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

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

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


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


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


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


Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe
            100                 105                 110


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


<210> 294
<211> 254
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 294
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


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


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


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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe
            100                 105                 110

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

Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly
    130                 135                 140

Ser Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
145                 150                 155                 160

Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr
                165                 170                 175

Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ser Pro Arg
            180                 185                 190

Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg
        195                 200                 205

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly
    210                 215                 220

Ala Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser
225                 230                 235                 240

Asn His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
                245                 250
```

<210> 295
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 295
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Glu Tyr Val Ser Trp Phe
100 105 110

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

<210> 296
<211> 254
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 296

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


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


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


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


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


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


Tyr Cys Val Arg His Gly Asn Phe Gly Asp Glu Tyr Val Ser Trp Phe
            100                 105                 110


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


Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly
    130                 135                 140


Ser Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
145                 150                 155                 160


Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr
                165                 170                 175


Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ser Pro Arg
            180                 185                 190
```

Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg
        195   200   205

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly
    210   215   220

Ala Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser
225   230   235   240

Asn His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
                245   250

<210> 297
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 297
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

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

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

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr

85 90 95

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Pro Tyr Val Ser Trp Phe
100 105 110

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

<210> 298
<211> 254
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 298
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Pro Tyr Val Ser Trp Phe
100 105 110

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


Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly
    130                 135                 140


Ser Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
145                 150                 155                 160


Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr
                165                 170                 175


Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ser Pro Arg
            180                 185                 190


Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg
        195                 200                 205


Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly
    210                 215                 220


Ala Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser
225                 230                 235                 240


Asn His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
                245                 250


<210> 299
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 299
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15
```

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe
            100   105   110

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

<210> 300
<211> 254
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 300
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe
            100                 105                 110

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

Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly
    130                 135                 140

Ser Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
145                 150                 155                 160

Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr
                165                 170                 175

Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ser Pro Arg
            180                 185                 190

Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg
        195                 200                 205

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly
    210                 215                 220

Ala Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser
225                 230                 235                 240
```

Asn His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
245 250

<210> 301
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 301
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe
100 105 110

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

<210> 302
<211> 254
<212> PRT

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 302
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe
100 105 110

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

Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly
130 135 140

Ser Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
145 150 155 160

Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr
165 170 175

Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ser Pro Arg
            180   185   190

Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg
        195   200   205

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly
    210   215   220

Ala Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser
225   230   235   240

Asn His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
                245   250

<210> 303
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 303
Arg Tyr Thr Met His
1   5

<210> 304
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 304
Ser Ala Ser Ser Ser Val Ser Tyr Met Asn
1   5   10

<210> 305
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
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Asp

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Asp

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Val Lys Gly

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Val Lys Gly

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Val Lys Gly

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Val Lys Gly

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Lys Gly

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<400> 347
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1 5 10

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1   5   10

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1 5

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1   5

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1 5 10

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1   5

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1   5

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Trp Tyr Ser Asn Arg Trp
1   5

<210> 403
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 403
Trp Tyr Ser Asn His Trp
1   5

<210> 404
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 404
Gly Asn Thr Leu Pro Trp
1   5

<210> 405
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 405
Gly Tyr Thr Phe Thr Arg Tyr Thr Met His
1 5 10

<210> 406
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 406
Gly Phe Thr Phe Asn Thr Tyr Ala Met Asn
1 5 10

<210> 407
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 407
Gly Tyr Thr Phe Thr Ser Tyr Thr Met His
1 5 10

<210> 408
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 408
Gly Phe Lys Phe Ser Gly Tyr Gly Met His
1   5   10

<210> 409
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 409
Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn
1   5   10

<210> 410
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 410
Gly Phe Thr Phe Asn Ser Tyr Ala Met Asn
1   5   10

<210> 411
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 411
Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn
1   5   10

<210> 412
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 412
Gly Tyr Ser Phe Thr Gly Tyr Thr Met Asn
1   5   10

<210> 413
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 413
Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser
1   5   10   15

Val Lys

<210> 414
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 414

Tyr Thr Ser Arg Leu His Ser
1   5

<210> 415
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 415
Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu
1   5   10   15

Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp
            20   25   30

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

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

Ser Thr Leu Lys Leu Trp Leu Val Asp Lys Ala Ala Met Gln Ile Phe
65   70   75   80

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

Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp Lys Glu Gly Ile
            100   105   110

Pro Pro Asp Gln Gln Arg Leu Ile Trp Ala Gly Lys Gln Leu Glu Asp
        115   120   125

Gly Arg Thr Leu Ser Asp Tyr Asn Ile Ala Leu Glu Ser Gly Leu His
    130   135   140

Leu Val Leu Arg Leu Arg Ala Ala
145 150

<210> 416
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 416
Lys Ala Ser Gly Tyr Lys Phe Thr Ser Tyr Val Met His
1 5 10

<210> 417
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 417
Tyr Ile Asn Pro Tyr Asn Asp Val Thr Lys Tyr Asn Glu Lys Phe Lys
1 5 10 15

<210> 418
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 418
Gly Ser Tyr Tyr Asp Tyr Asp Gly Phe Val Tyr
1 5 10

<210> 419
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 419
Ser Ala Thr Ser Ser Val Ser Tyr Met His
1 5 10

<210> 420
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 420
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15

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

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

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 421
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 421
Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Thr Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr
35 40 45

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

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

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

<210> 422
<211> 4
<212> PRT

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 422
Cys Pro Pro Cys
1

<210> 423
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 423
Ser Pro Pro Ser
1

<210> 424
<211> 19
<212> PRT
<213> Homo sapiens

<400> 424
Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr Pro
1 5 10 15

Ser Pro Ser

<210> 425
<211> 6
<212> PRT
<213> Homo sapiens

<400> 425
Val Pro Pro Pro Pro Pro
1 5

<210> 426
<211> 58
<212> PRT
<213> Homo sapiens

<400> 426
Glu Ser Pro Lys Ala Gln Ala Ser Ser Val Pro Thr Ala Gln Pro Gln
1   5   10   15

Ala Glu Gly Ser Leu Ala Lys Ala Thr Thr Ala Pro Ala Thr Thr Arg
            20   25   30

Asn Thr Gly Arg Gly Gly Glu Glu Lys Lys Lys Glu Lys Glu Lys Glu
        35   40   45

Glu Gln Glu Glu Arg Glu Thr Lys Thr Pro
    50   55

<210> 427
<211> 15
<212> PRT
<213> Homo sapiens

<400> 427
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1   5   10   15

<210> 428
<211> 12
<212> PRT
<213> Homo sapiens

<400> 428
Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
1   5   10

<210> 429
<211> 62
<212> PRT
<213> Homo sapiens

<400> 429
Glu Leu Lys Thr Pro Leu Gly Asp Thr Thr His Thr Cys Pro Arg Cys

1 5 10 15

Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro
20 25 30

Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Glu
35 40 45

Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro
50 55 60

<210> 430
<211> 12
<212> PRT
<213> Homo sapiens

<400> 430
Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
1 5 10

<210> 431
<211> 12
<212> PRT
<213> Homo sapiens

<400> 431
Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro
1 5 10

<210> 432
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 432
Cys Pro Ser Cys
1

<210> 433
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 433
Cys Pro Arg Cys
1

<210> 434
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 434
Ser Pro Pro Cys
1

<210> 435
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 435
Cys Pro Pro Ser
1

<210> 436
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 436
Asp Lys Thr His Thr Cys Ala Ala
1   5

<210> 437
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 437
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1   5   10

<210> 438
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 438
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Cys Pro Pro Cys
1   5   10   15

Pro Ala

<210> 439
<211> 25
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 439
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Thr Cys Pro Pro Cys
1 5 10 15

Pro Ala Thr Cys Pro Pro Cys Pro Ala
20 25

<210> 440
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 440
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Gly Lys Pro Thr Leu
1 5 10 15

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

<210> 441
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 441
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Gly Lys Pro Thr His
1 5 10 15

Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr
20 25 30

<210> 442
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 442
Asp Lys Thr His Thr Cys Cys Val Glu Cys Pro Pro Cys Pro Ala
1 5 10 15

<210> 443
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 443
Asp Lys Thr His Thr Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp
1 5 10 15

Thr Pro Pro Pro Cys Pro Arg Cys Pro Ala
20 25

<210> 444
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 444
Asp Lys Thr His Thr Cys Pro Ser Cys Pro Ala
1 5 10

<210> 445
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> SITE
<222> (1)..(50)
<223> /note="This sequence may encompass 1-10 'Gly Gly Gly Gly Ser'
repeating units"

<220>
<221> source
<223> /note="See specification as filed for detailed description of
substitutions and preferred embodiments"

<400> 445
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

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

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
35 40 45

Gly Ser
50

<210> 446
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 446

Ala Asp Ala Ala Pro
1   5

<210> 447
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 447
Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro
1   5   10

<210> 448
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 448
Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro
1   5   10

<210> 449
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 449
Ala Lys Thr Thr Ala Pro
1   5

<210> 450

<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 450
Ala Lys Thr Thr Ala Pro Ser Val Tyr Pro Leu Ala Pro
1 5 10

<210> 451
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 451
Ala Lys Thr Thr Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg
1 5 10 15

Val

<210> 452
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 452
Ala Lys Thr Thr Pro Lys Leu Gly Gly
1 5

<210> 453
<211> 6

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 453
Ala Lys Thr Thr Pro Pro
1 5

<210> 454
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 454
Ala Lys Thr Thr Pro Pro Ser Val Thr Pro Leu Ala Pro
1 5 10

<210> 455
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 455
Ala Ser Thr Lys Gly Pro
1 5

<210> 456
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 456
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
1 5 10

<210> 457
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 457
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ala Ser Thr
1 5 10 15

Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
20 25

<210> 458
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 458
Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr
1 5 10

<210> 459
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 459
Gly Glu Gly Glu Ser Gly Glu Gly Glu Ser Gly Glu Gly Glu Ser
1 5 10 15

<210> 460
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 460
Gly Glu Gly Glu Ser Gly Glu Gly Glu Ser Gly Glu Gly Glu Ser Gly
1 5 10 15

Glu Gly Glu Ser
20

<210> 461
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 461
Gly Glu Gly Gly Ser Gly Glu Gly Gly Ser Gly Glu Gly Gly Ser
1 5 10 15

<210> 462
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 462
Gly Glu Asn Lys Val Glu Tyr Ala Pro Ala Leu Met Ala Leu Ser
1   5   10   15

<210> 463
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 463
Gly Gly Glu Gly Ser Gly Gly Glu Gly Ser Gly Gly Glu Gly Ser
1   5   10   15

<210> 464
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 464
Gly Gly Gly Glu Ser Gly Gly Glu Gly Ser Gly Glu Gly Gly Ser
1   5   10   15

<210> 465
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 465
Gly Gly Gly Glu Ser Gly Gly Gly Glu Ser Gly Gly Gly Glu Ser
1   5   10   15

<210> 466
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 466
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 467
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 467
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser
20

<210> 468
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 468
Gly Gly Gly Lys Ser Gly Gly Gly Lys Ser Gly Gly Gly Lys Ser
1 5 10 15

<210> 469
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 469
Gly Gly Gly Lys Ser Gly Gly Lys Gly Ser Gly Lys Gly Gly Ser
1 5 10 15

<210> 470
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 470
Gly Gly Lys Gly Ser Gly Gly Lys Gly Ser Gly Gly Lys Gly Ser
1 5 10 15

<210> 471
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 471
Gly Gly Ser Gly Gly
1 5

<210> 472
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 472
Gly Gly Ser Gly Gly Gly Gly Ser Gly
1   5

<210> 473
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 473
Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1   5   10

<210> 474
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 474
Gly His Glu Ala Ala Ala Val Met Gln Val Gln Tyr Pro Ala Ser
1   5   10   15

<210> 475
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 475
Gly Lys Gly Gly Ser Gly Lys Gly Gly Ser Gly Lys Gly Gly Ser
1   5   10   15

<210> 476
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 476
Gly Lys Gly Lys Ser Gly Lys Gly Lys Ser Gly Lys Gly Lys Ser
1   5   10   15

<210> 477
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 477
Gly Lys Gly Lys Ser Gly Lys Gly Lys Ser Gly Lys Gly Lys Ser Gly
1   5   10   15

Lys Gly Lys Ser
            20

<210> 478
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 478

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

<210> 479
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 479
Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gly
1   5   10   15

Lys Pro Gly Ser
            20

<210> 480
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 480
Gly Pro Ala Lys Glu Leu Thr Pro Leu Lys Glu Ala Lys Val Ser
1   5   10   15

<210> 481
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 481
Gly Ser Ala Gly Ser Ala Ala Gly Ser Gly Glu Phe

1 5 10

<210> 482
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 482
Ile Arg Pro Arg Ala Ile Gly Gly Ser Lys Pro Arg Val Ala
1 5 10

<210> 483
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 483
Lys Glu Ser Gly Ser Val Ser Ser Glu Gln Leu Ala Gln Phe Arg Ser
1 5 10 15

Leu Asp

<210> 484
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 484
Lys Thr Thr Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg
1 5 10 15

<210> 485
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 485
Gln Pro Lys Ala Ala Pro
1 5

<210> 486
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 486
Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro
1 5 10

<210> 487
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 487
Arg Ala Asp Ala Ala Ala Ala Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

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

<210> 488
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 488
Arg Ala Asp Ala Ala Ala Ala Gly Gly Pro Gly Ser
1 5 10

<210> 489
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 489
Arg Ala Asp Ala Ala Pro
1 5

<210> 490
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 490
Arg Ala Asp Ala Ala Pro Thr Val Ser
1 5

<210> 491
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 491
Ser Ala Lys Thr Thr Pro
1 5

<210> 492
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 492
Ser Ala Lys Thr Thr Pro Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala
1 5 10 15

Arg Val

<210> 493
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 493
Ser Ala Lys Thr Thr Pro Lys Leu Gly Gly
1 5 10

<210> 494
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 494
Ser Thr Ala Gly Asp Thr His Leu Gly Gly Glu Asp Phe Asp
1   5   10

<210> 495
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 495
Thr Val Ala Ala Pro
1   5

<210> 496
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 496
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
1   5   10

<210> 497
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 497
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Thr Val Ala Ala
1   5   10   15

Pro Ser Val Phe Ile Phe Pro Pro
            20

<210> 498
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 498
Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
1   5   10   15

Lys Gly

<210> 499
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<400> 499
Pro Arg Gly Ala Ser Lys Ser Gly Ser Ala Ser Gln Thr Gly Ser Ala
1   5   10   15

Pro Gly Ser

<210> 500
<211> 19
<212> PRT

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 500
Gly Thr Ala Ala Ala Gly Ala Gly Ala Ala Gly Gly Ala Ala Ala Gly
1 5 10 15

Ala Ala Gly

<210> 501
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 501
Gly Thr Ser Gly Ser Ser Gly Ser Gly Ser Gly Gly Ser Gly Ser Gly
1 5 10 15

Gly Gly Gly

<210> 502
<211> 450
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 502
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
            100                 105                 110

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

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asp Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
    210                 215                 220
```

```
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Lys His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Glu Tyr Asn Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
            340                 345                 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Thr Cys Asp Val Ser Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380

Glu Ser Asp Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385                 390                 395                 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                405                 410                 415
```

Lys Ser Arg Trp Glu Gln Gly Asp Val Phe Ser Cys Ser Val Met His
420 425 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
435 440 445

Gly Lys
450

<210> 503
<211> 214
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 503
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 Ser Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Ser Ser Pro Leu
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

```
Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
        115                 120                 125


Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
    130                 135                 140


Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145                 150                 155                 160


Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
                165                 170                 175


Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
            180                 185                 190


Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
        195                 200                 205


Phe Asn Arg Gly Glu Cys
    210


<210> 504
<211> 485
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 504
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


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


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

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

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe
            100                 105                 110

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

Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly
    130                 135                 140

Ser Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
145                 150                 155                 160

Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr
                165                 170                 175

Ser Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Lys Ser Pro Arg
            180                 185                 190

Gly Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg
        195                 200                 205

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly
    210                 215                 220

Ala Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser
225                 230                 235                 240
```

```
Asn His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Glu Pro
                245                 250                 255

Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Pro
            260                 265                 270

Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
        275                 280                 285

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
    290                 295                 300

Lys His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
305                 310                 315                 320

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
                325                 330                 335

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
            340                 345                 350

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
        355                 360                 365

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
    370                 375                 380

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Gln Met Thr Lys Asn Gln
385                 390                 395                 400

Val Lys Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
                405                 410                 415

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
            420                 425                 430

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
        435                 440                 445
```

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
    450   455   460

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
465   470   475   480

Leu Ser Pro Gly Lys
                485

<210> 505
<211> 723
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 505
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

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

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly

```
            100                 105                 110

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

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
    210                 215                 220

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu
225                 230                 235                 240

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
                245                 250                 255

Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg
            260                 265                 270

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys
        275                 280                 285

Ala Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
    290                 295                 300
```

```
Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
305                 310                 315                 320

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
                325                 330                 335

Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly
            340                 345                 350

Thr Leu Val Thr Val Ser Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly
        355                 360                 365

Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gln Ala Val Val Thr
    370                 375                 380

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
385                 390                 395                 400

Cys Gly Ser Ser Thr Gly Ala Val Thr Thr Ser Asn Tyr Ala Asn Trp
                405                 410                 415

Val Gln Gln Lys Pro Gly Lys Ser Pro Arg Gly Leu Ile Gly Gly Thr
            420                 425                 430

Asn Lys Arg Ala Pro Gly Val Pro Ala Arg Phe Ser Gly Ser Leu Leu
        435                 440                 445

Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly Ala Gln Pro Glu Asp Glu
    450                 455                 460

Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn His Trp Val Phe Gly
465                 470                 475                 480

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly
                485                 490                 495

Gly Ser Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Pro Val Ala
```

```
            500                 505                 510

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
        515                 520                 525

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Lys His
    530                 535                 540

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
545                 550                 555                 560

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
                565                 570                 575

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
            580                 585                 590

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
        595                 600                 605

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
    610                 615                 620

Tyr Thr Leu Pro Pro Ser Arg Glu Gln Met Thr Lys Asn Gln Val Lys
625                 630                 635                 640

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
                645                 650                 655

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
            660                 665                 670

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
        675                 680                 685

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
    690                 695                 700
```

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
705 710 715 720

Pro Gly Lys

<210> 506
<211> 450
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 506
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Glu Ser Gly Gly Arg Ala Ala Tyr Ala Asp Ser Val
50 55 60

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
100 105 110

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

```
Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asp Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
    210                 215                 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Lys His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Glu Tyr Asn Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320
```

```
Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
            340                 345                 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Thr Cys Asp Val Ser Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380

Glu Ser Asp Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385                 390                 395                 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                405                 410                 415

Lys Ser Arg Trp Glu Gln Gly Asp Val Phe Ser Cys Ser Val Met His
            420                 425                 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435                 440                 445

Gly Lys
    450
```

<210> 507
<211> 214
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 507

```
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 Ser Ile Ser Ser Tyr
            20                  25                  30

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

Tyr Ala Ala Ser Ser Leu Gln 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 Ser Tyr Ser Thr Pro Leu
                85                  90                  95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
            100                 105                 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
        115                 120                 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
    130                 135                 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145                 150                 155                 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
                165                 170                 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
            180                 185                 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
        195                 200                 205

Phe Asn Arg Gly Glu Cys
```

210

<210> 508
<211> 723
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 508
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Glu Ser Gly Gly Arg Ala Ala Tyr Ala Asp Ser Val
50 55 60

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
100 105 110

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

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

```
Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
    210                 215                 220

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu
225                 230                 235                 240

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
                245                 250                 255

Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg
            260                 265                 270

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys
        275                 280                 285

Ala Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
    290                 295                 300

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
305                 310                 315                 320

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
                325                 330                 335

Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly
            340                 345                 350
```

```
Thr Leu Val Thr Val Ser Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly
        355                 360                 365

Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gln Ala Val Val Thr
    370                 375                 380

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
385                 390                 395                 400

Cys Gly Ser Ser Thr Gly Ala Val Thr Thr Ser Asn Tyr Ala Asn Trp
                405                 410                 415

Val Gln Gln Lys Pro Gly Lys Ser Pro Arg Gly Leu Ile Gly Gly Thr
            420                 425                 430

Asn Lys Arg Ala Pro Gly Val Pro Ala Arg Phe Ser Gly Ser Leu Leu
        435                 440                 445

Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly Ala Gln Pro Glu Asp Glu
    450                 455                 460

Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn His Trp Val Phe Gly
465                 470                 475                 480

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly
                485                 490                 495

Gly Ser Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Pro Val Ala
            500                 505                 510

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
        515                 520                 525

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Lys His
    530                 535                 540
```

```
Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
545                 550                 555                 560

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
                565                 570                 575

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
            580                 585                 590

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
        595                 600                 605

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
    610                 615                 620

Tyr Thr Leu Pro Pro Ser Arg Glu Gln Met Thr Lys Asn Gln Val Lys
625                 630                 635                 640

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
                645                 650                 655

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
            660                 665                 670

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
        675                 680                 685

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
    690                 695                 700

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
705                 710                 715                 720

Pro Gly Lys
```

<210> 509
<211> 452

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 509
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 Val Ser Ser Tyr
20 25 30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
115 120 125

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
130 135 140

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145 150 155 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe

```
                165                 170                 175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
            180                 185                 190

Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
        195                 200                 205

Asn His Lys Pro Ser Asp Thr Lys Val Asp Lys Lys Val Glu Pro Lys
    210                 215                 220

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Pro Val
225                 230                 235                 240

Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
                245                 250                 255

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Lys
            260                 265                 270

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
        275                 280                 285

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Glu Tyr Asn Ser Thr
    290                 295                 300

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
305                 310                 315                 320

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
                325                 330                 335

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
            340                 345                 350

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
        355                 360                 365
```

```
Ser Leu Thr Cys Asp Val Ser Gly Phe Tyr Pro Ser Asp Ile Ala Val
    370                 375                 380

Glu Trp Glu Ser Asp Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
385                 390                 395                 400

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
                405                 410                 415

Val Asp Lys Ser Arg Trp Glu Gln Gly Asp Val Phe Ser Cys Ser Val
            420                 425                 430

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
        435                 440                 445

Ser Pro Gly Lys
    450
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<210> 510
<211> 217
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 510

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

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

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

Met Ile Tyr Asp Val Ser Asn Arg Leu Arg Gly Val Ser Asn Arg Phe
    50                  55                  60
```

```
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65                  70                  75                  80


Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
                85                  90                  95


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


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


Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe
    130                 135                 140


Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
145                 150                 155                 160


Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
                165                 170                 175


Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
            180                 185                 190


His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
        195                 200                 205


Lys Thr Val Ala Pro Thr Glu Cys Ser
    210                 215


<210> 511
<211> 725
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
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polypeptide"

<400> 511

```
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 Val Ser Ser Tyr
            20                  25                  30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
            100                 105                 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
        115                 120                 125

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
    130                 135                 140

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145                 150                 155                 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
                165                 170                 175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
            180                 185                 190
```

```
Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
        195                 200                 205

Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
    210                 215                 220

Ser Cys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu
225                 230                 235                 240

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
                245                 250                 255

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp
            260                 265                 270

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Arg Ile Arg
        275                 280                 285

Ser Lys Ala Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly
    290                 295                 300

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln
305                 310                 315                 320

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
                325                 330                 335

His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly
            340                 345                 350

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Lys Pro Gly Ser Gly Lys
        355                 360                 365

Pro Gly Ser Gly Lys Pro Gly Ser Gly Lys Pro Gly Ser Gln Ala Val
    370                 375                 380

Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr
```

385 390 395 400

Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Thr Ser Asn Tyr Ala
405 410 415

Asn Trp Val Gln Gln Lys Pro Gly Lys Ser Pro Arg Gly Leu Ile Gly
420 425 430

Gly Thr Asn Lys Arg Ala Pro Gly Val Pro Ala Arg Phe Ser Gly Ser
435 440 445

Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Ser Gly Ala Gln Pro Glu
450 455 460

Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn His Trp Val
465 470 475 480

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gly
485 490 495

Gly Gly Gly Ser Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Pro
500 505 510

Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
515 520 525

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
530 535 540

Lys His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
545 550 555 560

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
565 570 575

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
580 585 590

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
595 600 605

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
610 615 620

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Gln Met Thr Lys Asn Gln
625 630 635 640

Val Lys Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
645 650 655

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
660 665 670

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
675 680 685

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
690 695 700

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
705 710 715 720

Leu Ser Pro Gly Lys
725

<210> 512
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 512
Gly Phe Leu Gly
1

<210> 513
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 513
Ala Leu Ala Leu
1

<210> 514
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 514
Arg Gly Asp Ser
1

<210> 515
<211> 249
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 515
atgttgcaaa tggctgggca atgtagtcag aatgagtact tcgattctct tctccatgct 60

tgtatcccct gccagctgag gtgttcaagc aatactccgc cccttacctg tcaacgatat 120

tgtaatgcct ccgtgaccaa ttccgtgaag ggaaccaatg ctggatccca tcaccatcac 180

catcacgaat ttagacatga tagcggcctg aacgacattt tcgaggctca aaagatcgag 240

tggcacgag 249

<210> 516
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 516
caggtgcagc tgcaggagtc gggggggaggc gtggtccagc ctgggaggtc cctgagactc 60

tcctgtgcag cctctggatt caccttcagt agctatggca tgcactgggt ccgccaggct 120

ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaagtaa taaatactat 180

gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240

ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgg ggggagtggt 300

tacgcccttc acgatgacta ctacggcttg gacgtctggg gccaaggcac cctggtcacc 360

gtctcctca 369

<210> 517
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 517
cagtctgccc tgactcagcc tgcctccgtg tctgggtctc ctggacagtc gatcaccatc 60

tcctgcactg gaaccagcag tgacgttggt ggttataact atgtctcctg gtaccaacag 120

cacccaggca aagcccccaa actcatgatt tatgatgtca gtaatcggcc ctcaggggtt 180

tctaatcgct tctctggctc caagtctggc aacacggcct ccctgaccat ctctgggctc 240

caggctgagg acgaggctga ttattactgc agctcatata caagcagcag cacccтttat 300

gtcttcggaa gtgggaccaa ggtcaccgtc cta 333

<210> 518
<211> 83
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 518
Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
1 5 10 15

Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
20 25 30

Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
35 40 45

Val Lys Gly Thr Asn Ala Gly Ser His His His His His His Glu Phe
50 55 60

Arg His Asp Ser Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu
65 70 75 80

Trp His Glu

<210> 519
<211> 246
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 519

atgctccaga tggcacggca atgtagtcag aacgagtatt ttgatagcct gctccacgat 60

tgcaagccct gtcagctgcg gtgtagctcc actccgccat tgacgtgtca gcggtactgc 120

aacgcaagta tgacaaactc agtcaagggc atgaacgcag gatcccatca ccatcaccat 180

cacgaattta gacatgatag cggcctgaac gacattttcg aggctcaaaa gatcgagtgg 240

cacgag 246

<210> 520
<211> 765
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 520
caagtgcagc tccagagttc cgaaggcgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcataca agggttccaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcgt caggtggtgg tggttctggt ggtggcggct caggcggcgg cggctcaggt 420

ggtggaggat cccagtccgc tctgacccaa ccggcttccg tgagcggaag ccccggacag 480

tccattacta tcagctgtac cggcacctcc tccgacgtcg gtggatacaa ctacgtgtcc 540

tggtatcagc agcatcctgg aaaggctcca aagctcatga tctacgaggt gtcgaacaga 600

ctgaggggtg tgtccaatcg cttttcgggc tccaagttcg gaaacacggc ctcactgact 660

atctcgggac tgcaggccga agatgaagcc gactactact gctcctccta cacctcgtcc 720

tccgctctgt acgtgttcgg gtccggcacc aaagtcactg tgctg 765

<210> 521

<211> 765
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 521
caagcgcagc tccagagttc cggaggcgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca aggggtccaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcgt caggtggtgg tggttctggt ggtggcggct caggcggcgg cggctcaggt 420

ggtggaggat cccagtccgc tctgacccaa ccggcttccg tgagcggaag ccccggacag 480

tccattacta tcagctgtac cggcacctcc tccgacgtcg gtggatacaa ctacgtgtcc 540

tggtatcagc agcatcctgg aaaggctcca aagctcatga tctacgaagt gtcgaacaga 600

ctgagaggtg tgtccaatcg cttttcgggc tccaagttcg gaaacacggc ctcactgact 660

atctcgggac tgcaggccga agatgaagcc gactactact gctcctccta cacctcgtcc 720

tccactctgt acgtgttcgg gtccggcacc aaagtcactg tgctg 765

<210> 522
<211> 765
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 522
caagtgcagc tccaggattc cgaaggcgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca ctggtaccaa aaagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcgt caggtggtgg tggttctggt ggtggcggct caggcggcgg cggctcaggt 420

ggtggaggat cccagtccgc tctgacccaa ccggcttccg tgagcggaag ccccggacag 480

tccattacta tcagctgtac cggcacctcc tccgacgtcg gtggatacaa ctacgtgtcc 540

tggtatcagc agcatcctgg aaaggctcca aagctcatga tctacgacgt gtcgaacaga 600

ccgtggggtg tgtccaatcg cttttcgggc tccaagttcg gaaacacggc ctcactgact 660

atctcgggac tgcaggccga agatgaagcc gactactact gctcctccta cacctcgtcc 720

tccgctctgt acgtgttcgg gtccggcacc aaagtcactg tgatg 765

<210> 523
<211> 765
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 523
caagcgcagc tccagagttc cgaaggcgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctacc ggggttttaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacgacta ttacgggcag gacgtctggg gacagggcac cctggtcact 360

gtgtcctcgt caggtggtgg tggttctggt ggtggcggct caggcggcgg cggctcaggt 420

ggtggaggat cccagtccgc tctgacccaa ccggcttccg tgagcggaag ccccggacag 480

tccattacta tcagctgtac cggcacctcc tccgacgtcg gtggatacaa ctacgtgtcc 540

tggtatcagc agcatcctgg aaaggctcca aagctcatga tctacgacgt gtcgaacaga 600

ctgagcggtg tgtccaatcg cttttcgggc tccaagttcg gaaacacggc ctcactgact 660

atctcgggac tgcaggccga agatgaagcc gactactact gctcctccta cacatcgtcc 720

tccactctgt acgtgttcgg gtccggcacc aaagtcactg tgctg 765

<210> 524
<211> 765
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 524
caagcgcagc tccaggggtc cggaggcgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca aggggtccca caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcgt caggtggtgg tggttctggt ggtggcggct caggcggcgg cggctcaggt 420

ggtggaggat cccagtccgc tctgacccaa ccggcttccg tgagcggaag ccccggacag 480

tccattacta tcagctgtac cggcacctcc tccgacgtcg gtggatacaa ctacgtgtcc 540

tggtatcagc agcatcctgg aaaggctcca aagctcatga tctacgacgt gtcgaacaga 600

ccgtggggtg tgtccaatcg cttttcgggc tccaagttcg gaaacacggc ctcactgact 660

atctcgggac tgcaggccga agatgaagcc gactactact gctcctccta cacctcgtcc 720

tccactctgt acgtgttcgg gtccggcacc aaagtcactg tgctg 765

<210> 525
<211> 765
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 525
caagtgcagc tccagagttc cgaaggcgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca aggggtcgaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcgt caggtggtgg tggttctggt ggtggcggct caggcggcgg cggctcaggt 420

ggtggaggat cccagtccgc tctgacccaa ccggcttccg tgagcggaag ccccggacag 480

tccattacta tcagctgtac cggcacctcc tccgacgtcg gtggatacaa ctacgtgtcc 540

tggtatcagc agcatcctgg aaaggctcca aagctcatga tctacgacgt gtcgaacaga 600

ccgtggggtg tgtccaatcg cttttcgggc tccaagttcg gaaacacggc ctcactgact 660

atctcgggac tgcaggccga agatgaagcc gactactact gctcctccta cacctcgtcc 720

tccactctgt acgtgttcgg gtccggcacc aaagtcactg tgctg 765

<210> 526
<211> 765
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 526

caagcgcagc tccagagttc cggaggtgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccgtctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca ctgggtccaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcgt caggtggtgg tggttctggt ggtggcggct caggcggcgg cggctcaggt 420

ggtggaggat cccagtccgc tctgacccaa ccggcttccg tgagcggaag ccccggacag 480

tccattacta tcagctgtac cggcacctcc tccgacgtcg gtggatacaa ctacgtgtcc 540

tggtatcagc agcatcctgg aaaggctcca aagctcatga tctacgacgt gtcgaacaga 600

ctgaggggtg tgtccaatcg cttttcgggc tccaagttcg gaaacacggc ctcactgact 660

atctcgggat tgcaggccga agatgaagcc gactactact gctcctccta cacctcgtca 720

tccgctctgt acgtgttcgg gtccggcacc aaagtcactg tgctg 765

<210> 527
<211> 765
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 527
caagtgcagc tccagagttc cggaggcgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcataca ctggttctaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcgt caggtggtgg tggttctggt ggtggcggct caggcggcgg cggctcaggt 420

ggtggaggat cccagtccgc tctgacccaa ccggcttccg tgagcggaag ccccggacag 480

tccattacta tcagctgtac cggcacctcc tccgacgtcg gtggatacaa ctacgtgtcc 540

tggtatcagc agcatcctgg aaaggctcca aagctcatga tctacgacgt gtcgaacaga 600

gcgtggggtg tgtccaatcg cttttcgggc tccaagttcg gaaacacggc ctcactgact 660

atctcgggac tgcaggccga agatgaagcc gactactact gctcctccta cacctcgtcc 720

tccgctctgt acgtgttcgg gtccggtacc aaagtcactg tgctg 765

<210> 528
<211> 765
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 528
caagcgcagc tccaggggtc cggaggcgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctata agggttccaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcgt caggtggtgg tggttctggt ggtggcggct caggcggcgg cggctcaggt 420

ggtggaggat cccagtccgc tctgacccaa ccggcttccg tgagcggaag ccccggacag 480

tccattacta tcagctgtac cggcacctcc tccgacgtcg gtggatacaa ctacgtgtcc 540

tggtatcagc agcatcctgg aaaggctcca aagctcatga tctacgaagt gtcgaacaga 600

ttgagaggtg tgtccaatcg cttttcgggc tccaagttcg gaaacacggc ctcactgact 660

atctcgggac tgcaggccga agatgaagcc gactactact gctcctccta cacctcgtcc 720

tccactctgt acgtgttcgg gtccggcacc aaagtcactg tgctg 765

<210> 529
<211> 82
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 529
Met Leu Gln Met Ala Arg Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
1 5 10 15

Leu Leu His Asp Cys Lys Pro Cys Gln Leu Arg Cys Ser Ser Thr Pro
20 25 30

Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Met Thr Asn Ser Val
35 40 45

Lys Gly Met Asn Ala Gly Ser His His His His His His Glu Phe Arg
50 55 60

His Asp Ser Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp
65 70 75 80

His Glu

<210> 530
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 530
Ser Gly Tyr Ala Leu His Asp

1 5

<210> 531
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 531
Asp Tyr Tyr Gly Leu Asp Val
1 5

<210> 532
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 532
caagtgcagc tccaggggtc cggaggtgga gtggtgcagc ctggaaggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctacg atgatgccca caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgaccagta taagccagtc gatgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 533
<211> 333
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 533
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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaagtgt cgaacagact aagcggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcct cactgactat ctcgggactg 240

caggccgaag atgaagccga ctactactgc tcctcctaca cctcgtcctc cgctctgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

<210> 534
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 534
caagcgcagc tccaggagtc cgaaggcgga gtggtgcagc ctggagggag cctgcgcctg 60

tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca atgatttgaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgacttcca ggatccaaca gatgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 535
<211> 369
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 535
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tcatgcgcag cgtccgggtt caccgtctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca gtgggtccaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgaccagta taagccagtc gatgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 536
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaggtgt cgaacagact gagcggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcct cactgactat ctcgggactg 240

caggccgaag atgaagccga ctactactgc tcctcctaca cctcgtcctc cgctctgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

<210> 537
<211> 333
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 537
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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaagtgt cgaacagact gagaggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcat cactgactat ctcgggactg 240

caggccgaag atgaagccta ctactactgc tcctcctaca cctcgtcctc cactctgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

<210> 538
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

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tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca ctggggccaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttctggt 300

tataacttgc acgatgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 539
<211> 333
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 539
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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaggtgt cgaacagact gaggggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcct cactgactat ctcgggactg 240

caggccgaag atgaagccga ctactactgc tcctcctaca cctcgtcctc cactctgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

<210> 540
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

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tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctacg atgatgccca caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgaccagta taagccagtc gatgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 541
<211> 369
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 541
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tcatgcgcag cgtccgggtt caccttatca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca ctgggtccaa taagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttctggt 300

tatgaattcc acgaagacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 542
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 542
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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaagtgt cgaacagact gaggggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcct cactgactat ctctggactg 240

caggccgaag atgaagccga ctactactgc tcctcctaca ccacgtcctc cactctgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

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<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
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tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctacg atgatgccca caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgaccagta taagccagtc gatgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 544
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaggtgt cgaacagact gagcggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcct cactgactat ctcgggactg 240

caggccgaag atgaagccga ctactactgc tcctcctaca cctcgtcctc cactctgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

<210> 545
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<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 545
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tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca atgatttgaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttctggt 300

tatgaattcc agggtgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 546
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaagtgt cgaacagact gaggggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcct cactgactat ctcgggactg 240

caggccgaag atgaagccga ctactactgc tcctcctaca cctcgtcctc cactctgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

<210> 547
<211> 369
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

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tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctaca atgatgccaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttctggt 300

tatgaattga gagatgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 548
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaggtgt cgaacagact gagaggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcct cactgactat ctcgggactg 240

caggccgaag atgaagccga ctactactgc tcctcctaca cctcgtcctc cactctgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

<210> 549
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<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

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tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctacg atgagtccaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttctggt 300

tatgaagtcg atcaggacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 550
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 550
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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaggtgt cgaacagact gcgcggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcct cactgactat ctcgggactg 240

caggccgaag atgaagccga ctactactgc tcctcctaca cctcgtcctc cacactgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

<210> 551
<211> 369
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 551
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tcatgcgcag cgtccgggtt caccttctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcctacg atgatgccca caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca actcgaagaa caccctgtac 240

ctccaaatga acagcctgcg cgccgaagat actgccgtgt actactgcgg cggttccggt 300

tacgcgctcc acgaccagta taagccagtc gatgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 552
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 552
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tcatgcgcag cgtccgggtt caccgtctca tcctacggca tgcactgggt cagacaggcc 120

ccgggaaaag gattggaatg ggtggccgtg atttcatacg atgatgccaa caagtactac 180

gccgattccg tgaagggacg gtttaccatc tcgcgggaca gctcgaagaa caccctgtac 240

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tatgcttatg atggtgacta ttacgggctg gacgtctggg gacagggcac cctggtcact 360

gtgtcctcg 369

<210> 553
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<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

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agctgtaccg gcacctcctc cgacgtcggt ggatacaact acgtgtcctg gtatcagcag 120

catcctggaa aggctccaaa gctcatgatc tacgaggtgt cgaacagact gcgcggtgtg 180

tccaatcgct tttcgggctc caagttcgga aacacggcct cactgactat ctcgggactg 240

caggccgaag atgaagccga ctactactgc tcctcctaca cctcgtcctc cgctctgtac 300

gtgttcgggt ccggcaccaa agtcactgtg ctg 333

<210> 554
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 554
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tcatgtgccg catccggctt tactttctct tcctacgcca tgtcgtgggt cagacaggcc 120

ccgggaaagg gacttgagtg ggtgtcggcc atctccggtt ccgggggatc cacctactac 180

gcggactccg tgaagggccg cttcactatt tcacgggaca acagcaagaa caccctgtac 240

ctccaaatga actcgctgcg cgccgaagat accgccgtct actactgcgc gcggagggaa 300

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agc 363

<210> 555
<211> 224
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 555
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
100 105 110

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

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145 150 155 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165 170 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180   185   190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195   200   205

Lys Pro Ser Asp Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
    210   215   220

<210> 556
<211> 672
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polynucleotide"

<400> 556
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tcatgtgccg catccggctt tactttctct tcctacgcca tgtcgtgggt cagacaggcc 120

ccgggaaagg gacttgagtg ggtgtcggcc atctccggtt ccgggggatc cacctactac 180

gcggactccg tgaagggccg cttcactatt tcacgggaca acagcaagaa caccctgtac 240

ctccaaatga actcgctgcg cgccgaagat accgccgtct actactgcgc gcggagggaa 300

tggtggtacg acgattggta tctggactac tggggccagg gcactctcgt gaccgtgtcc 360

agcgctagca ccaagggccc gtcagtgttt cctctggccc caagctccaa gtccacctcc 420

ggtggtacag ccgcgttggg atgcttggtc aaggactact ttccggaacc cgtgaccgtg 480

tcctggaact ccggcgccct gactagcgga gtgcacacct tccccgctgt gctgcagtct 540

agcgggctgt attccctctc gtccgtggtc accgtgccgt cctcatccct gggaacccag 600

acctacattt gcaacgtgaa ccacaagccg tcagacacca aggtggacaa gaaggtggag 660

ccgaagtcct gc   672

<210> 557

<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 557
gacattcaga tgactcagtc cccgtcctcc ttgtccgcct ccgtgggaga cagagtcacc 60

atcacttgcc gggcatcgca gagcatctct tcatacctga actggtatca gcagaagccc 120

ggaaaggccc ctaagctgct gatctacgcg gccagcagcc ttcagtccgg cgtgccatca 180

aggttcagcg gatcgggttc gggcaccgat tttactctga ccattagctc cctgcaaccc 240

gaggacttcg ctacctacta ctgtcagcag tcctactcct ccccgctgac cttcggacaa 300

gggaccaaag tcgaaatcaa g 321

<210> 558
<211> 642
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 558
gacattcaga tgactcagtc cccgtcctcc ttgtccgcct ccgtgggaga cagagtcacc 60

atcacttgcc gggcatcgca gagcatctct tcatacctga actggtatca gcagaagccc 120

ggaaaggccc ctaagctgct gatctacgcg gccagcagcc ttcagtccgg cgtgccatca 180

aggttcagcg gatcgggttc gggcaccgat tttactctga ccattagctc cctgcaaccc 240

gaggacttcg ctacctacta ctgtcagcag tcctactcct ccccgctgac cttcggacaa 300

gggaccaaag tcgaaatcaa gcgtacggtg gccgctccca gcgtgttcat cttcccccc 360

agcgacgagc agctgaagag cggcaccgcc agcgtggtgt gcctgctgaa caacttctac 420

ccccgggagg ccaaggtgca gtggaaggtg gacaacgccc tgcagagcgg caacagccag 480

gagagcgtca ccgagcagga cagcaaggac tccacctaca gcctgagcag caccctgacc 540

ctgagcaagg ccgactacga gaagcataag gtgtacgcct gcgaggtgac ccaccagggc 600

ctgtccagcc ccgtgaccaa gagcttcaac aggggcgagt gc 642

<210> 559
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 559
Arg Ser Lys Ala Asn Asn Tyr Ala
1 5

<210> 560
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 560
Gly Phe Thr Phe Ser Thr Tyr Ala
1 5

<210> 561
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 561
Ile Arg Ser Lys Ala Asn Asn Tyr Ala Thr
1 5 10

<210> 562
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 562
Val Arg His Gly Asn Phe Gly Asp Ser Tyr Val Ser Trp Phe Ala Tyr
1 5 10 15

<210> 563
<211> 375
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 563
gaagtgcagc ttgtggagtc ggggggagga ttggtccaac ccggtggctc gctgaggctg 60

agttgcgccg cttcggggtt taccttcagc acctacgcta tgaactgggt cagacaggcg 120

cctggaaagg gtttggagtg ggtcggacgc atccggtcca aggccaacaa ctacgcgact 180

tactatgccg actccgtcaa gggacggttc accatctccc gggacgacag caagaacacc 240

ctgtacctcc aaatgaactc ccttcgggcc gaagataccg ccgtgtacta ctgcgtgaga 300

cacggcaact tcggcgactc ctacgtgtcc tggtttgcct actggggcca gggtactctc 360

gtgaccgtgt catca 375

<210> 564
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 564
Thr Gly Ala Val Thr Thr Ser Asn Tyr
1 5

<210> 565
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 565
Gly Thr Asn Lys Arg Ala Pro Gly Val Pro
1 5 10

<210> 566
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 566
caggctgtgg tcacccagga accctccctg actgtgtccc cgggaggaac cgtgacactg 60

acttgtggca gctccaccgg agccgtgacc acctccaact acgccaactg ggtgcagcaa 120

aagccaggaa agtcccctag ggggctgatc ggtggcacga acaagcgggc acctggagtg 180

cctgcccgat tctcgggtag cctgctgggg ggaaaagccg ccctgaccat ttcgggcgct 240

cagccagagg acgaagccga ctattactgc gcactctggt actccaacca ctgggtgttc 300

ggtggaggca ccaagctgac cgtgctg 327

<210> 567
<211> 762
<212> DNA

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 567
gaagtgcagc ttgtggagtc cgggggagga ttggtccaac ccggtggctc gctgaggctg 60

agttgcgccg cttcggggtt taccttcagc acctacgcta tgaactgggt cagacaggcg 120

cctggaaagg gtttggagtg ggtcggacgc atccggtcca aggccaacaa ctacgcgact 180

tactatgccg actccgtcaa gggacggttc accatctccc gggacgacag caagaacacc 240

ctgtacctcc aaatgaactc ccttcgggcc gaagataccg ccgtgtacta ctgcgtgaga 300

cacggcaact tcggcgactc ctacgtgtcc tggtttgcct actggggcca gggtactctc 360

gtgaccgtgt catcaggaaa gccaggctcg gggaagcctg gctccggaaa gcctgggagc 420

ggaaagccgg gatcgcaggc tgtggtcacc caggaaccct ccctgactgt gtccccggga 480

ggaaccgtga cactgacttg tggcagctcc accggagccg tgaccacctc caactacgcc 540

aactgggtgc agcaaaagcc aggaaagtcc cctagggggc tgatcggtgg cacgaacaag 600

cgggcacctg gagtgcctgc ccgattctcg ggtagcctgc tgggggggaaa agccgccctg 660

accatttcgg gcgctcagcc agaggacgaa gccgactatt actgcgcact ctggtactcc 720

aaccactggg tgttcggtgg aggcaccaag ctgaccgtgc tg 762

<210> 568
<211> 1350
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 568
gaggtgcagc tgctggagag cgggggtgga ctggtgcagc cgggaggttc cctccggttg 60

tcatgtgccg catccggctt tactttctct tcctacgcca tgtcgtgggt cagacaggcc 120

ccgggaaagg gacttgagtg ggtgtcggcc atctccggtt ccgggggatc cacctactac 180

gcggactccg tgaagggccg cttcactatt tcacgggaca acagcaagaa caccctgtac 240

ctccaaatga actcgctgcg cgccgaagat accgccgtct actactgcgc gcggagggaa 300

tggtggtacg acgattggta tctggactac tggggccagg gcactctcgt gaccgtgtcc 360

agcgctagca ccaagggccc gtcagtgttt cctctggccc caagctccaa gtccacctcc 420

ggtggtacag ccgcgttggg atgcttggtc aaggactact ttccggaacc cgtgaccgtg 480

tcctggaact ccggcgccct gactagcgga gtgcacacct tccccgctgt gctgcagtct 540

agcgggctgt attccctctc gtccgtggtc accgtgccgt cctcatccct gggaacccag 600

acctacattt gcaacgtgaa ccacaagccg tcagacacca aggtggacaa gaaggtggag 660

ccgaagtcct gcgacaagac ccatacttgt cctccttgcc ccgctccacc tgtggcggga 720

ccttccgtgt tccttttccc gccgaagccg aaggacactc tgatgatctc gcggactccc 780

gaagtcactt gcgtggtggt ggacgtcaaa cacgaagatc ccgaggtcaa gttcaattgg 840

tacgtggacg gggtggaagt ccacaacgcc aagactaagc cgcgcgagga agagtacaat 900

tccacttacc gggtcgtgtc ggtgctgact gtgctgcatc aggactggct gaacggaaag 960

gagtacaagt gcaaagtgtc gaacaaggcc ctgcctgcac caatcgaaaa gaccattagc 1020

aaagccaagg gccagccgag agaaccccaa gtctacactc tgccaccatc ccgcgaagaa 1080

atgaccaaga accaagtgtc gctgacgtgc gacgtgtcgg gattctaccc gtccgatatt 1140

gccgtggaat gggagagcga cggccaaccc gagaacaact acaagactac ccccccgtc 1200

ttggattccg atggttcctt cttcctgtac tccaagctga ccgtggataa gtcccgatgg 1260

gagcagggcg atgtgttctc gtgctccgtg atgcatgaag ccctgcacaa ccactatacc 1320

cagaagtcac tgtcgctgag ccctgggaag 1350

<210> 569
<211> 1455
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 569
gaagtgcagc ttgtggagtc cgggggagga ttggtccaac ccggtggctc gctgaggctg 60

agttgcgccg cttcggggtt taccttcagc acctacgcta tgaactgggt cagacaggcg 120

cctggaaagg gtttggagtg ggtcggacgc atccggtcca aggccaacaa ctacgcgact 180

tactatgccg actccgtcaa gggacggttc accatctccc gggacgacag caagaacacc 240

ctgtacctcc aaatgaactc ccttcgggcc gaagataccg ccgtgtacta ctgcgtgaga 300

cacggcaact tcggcgactc ctacgtgtcc tggtttgcct actggggcca gggtactctc 360

gtgaccgtgt catcaggaaa gccaggctcg gggaagcctg gctccggaaa gcctgggagc 420

ggaaagccgg gatcgcaggc tgtggtcacc caggaaccct ccctgactgt gtccccggga 480

ggaaccgtga cactgacttg tggcagctcc accggagccg tgaccacctc caactacgcc 540

aactgggtgc agcaaaagcc aggaaagtcc cctagggggc tgatcggtgg cacgaacaag 600

cgggcacctg gagtgcctgc ccgattctcg ggtagcctgc tgggggggaaa agccgccctg 660

accatttcgg gcgctcagcc agaggacgaa gccgactatt actgcgcact ctggtactcc 720

aaccactggg tgttcggtgg aggcaccaag ctgaccgtgc tggagccaaa gtcaagcgac 780

aaaactcaca cttgccctcc ttgtccggct cctcctgtgg ctggtccctc cgtgttcctc 840

ttcccgccga agccgaagga caccctcatg atttcccgga cgcccgaagt cacttgtgtg 900

gtggtcgatg tgaagcatga ggaccccgaa gtgaagttca attggtacgt ggatggcgtg 960

gaggtccaca acgccaagac caagccgcgc gaagaacagt acaacagcac ctaccgcgtc 1020

gtgagcgtgc tcaccgtgct ccaccaagat tggctgaacg gaaaggagta caagtgcaaa 1080

gtgtccaaca aggcccttcc tgcacctatt gaaaagacta ttagcaaggc caagggacag 1140

ccccgcgaac ctcaagtgta cactctgccg ccgtccagag agcagatgac caaaaaccag 1200

gtcaagctca cttgtctcgt gaagggcttc tacccgtccg atatcgcggt cgaatgggag 1260

tcaaacggcc agcccgagaa caactacaag actaccccac cggtgcttga ctccgacggt 1320

tcgttctttc tgtactccaa gctgaccgtg gacaagtccc ggtggcagca agggaatgtg 1380

ttcagctgct ccgtgatgca cgaagccctg cataaccact acacccagaa gtcgctcagc 1440

ctgtcccctg gaaaa 1455

<210> 570
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 570
gaagtgcaac ttttggaaag cggaggcgga ttggtgcaac ctggcggctc actgagactg 60

agctgcgccg cctccggatt cactttctcc tcctacgcca tgtcctgggt ccgacaggcg 120

cccgggaagg gcctcgaatg ggtgtcggcc atttccggat ctggtggaag cacctactac 180

gctgatagcg tgaagggtcg cttcaccatt tcgcgcgaca attcgaagaa caccctgtat 240

ctgcaaatga atagcttgag agccgaagat accgccgtgt actactgcgc acggcgggag 300

tggtggtacg acgattggta cctggactac tgggggcagg ggacactcgt gaccgtgtcg 360

agc 363

<210> 571
<211> 672
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 571
gaagtgcaac ttttggaaag cggaggcgga ttggtgcaac ctggcggctc actgagactg 60

agctgcgccg cctccggatt cactttctcc tcctacgcca tgtcctgggt ccgacaggcg 120

cccgggaagg gcctcgaatg ggtgtcggcc atttccggat ctggtggaag cacctactac 180

gctgatagcg tgaagggtcg cttcaccatt tcgcgcgaca attcgaagaa caccctgtat 240

ctgcaaatga atagcttgag agccgaagat accgccgtgt actactgcgc acggcgggag 300

tggtggtacg acgattggta cctggactac tgggggcagg ggacactcgt gaccgtgtcg 360

agcgcttcca ccaagggacc gagcgtgttc ccgctggcgc cgagcagcaa atcgacttct 420

gggggaaccg cagccctggg ttgcctggtc aaggactact tcccggaacc agtcactgtg 480

tcctggaaca gcggtgccct cacctcgggc gtgcacacct tcccggccgt gctgcagtct 540

agcggactct actcgctctc ctccgtggtc accgtgccct cctcatcact gggaacccag 600

acatacattt gcaacgtgaa ccacaagccc tcggacacta aggtggacaa aaaagtggaa 660

ccaaagtcct gc 672

<210> 572
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 572
gacattcaga tgacccagtc cccgagctcc ctgtcggctt ccgtgggcga cagagtgacg 60

attacttgcc gcgcgtccca aagcatctcc tcctacctga actggtacca gcagaagccg 120

ggaaaggccc caaagctgtt gatctacgcc gcctcatcgc tccaatctgg agtgccttcc 180

cggttttcgg ggtcgggcag cgggactgat ttcaccctga ccatcagcag cctgcagcct 240

gaagatttcg ccacctacta ctgccagcag tcctattcct cacccctgac tttcggacaa 300

ggcaccaagg tcgagatcaa g 321

<210> 573
<211> 642
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 573
gacattcaga tgacccagtc cccgagctcc ctgtcggctt ccgtgggcga cagagtgacg 60

attacttgcc gcgcgtccca aagcatctcc tcctacctga actggtacca gcagaagccg 120

ggaaaggccc caaagctgtt gatctacgcc gcctcatcgc tccaatctgg agtgccttcc 180

cggttttcgg ggtcgggcag cgggactgat ttcaccctga ccatcagcag cctgcagcct 240

gaagatttcg ccacctacta ctgccagcag tcctattcct cacccctgac tttcggacaa 300

ggcaccaagg tcgagatcaa gcgtacggtg gctgcaccat ctgtcttcat cttcccgcca 360

tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat 420

cccagagagg ccaaagtaca gtggaaggtg gataacgccc tccaatcggg taactcccag 480

gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 540

ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc 600

ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt gt 642

<210> 574
<211> 375
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 574
gaggtgcagc tcgtcgaatc cggtggaggg ctggtgcaac cgggggctc gcttaggctt 60

agctgcgctg cgtcagggtt caccttctca acttacgcga tgaattgggt cagacaggca 120

cccggaaagg gactggaatg ggtcggaaga atcagatcga aggccaacaa ctacgccact 180

tactacgccg actccgtgaa gggaaggttc actatctcgc gggacgactc caagaacact 240

ctgtatctcc aaatgaactc actccgggcc gaggatactg cggtgtacta ttgcgtgcgg 300

catggaaact tcggggacag ctacgtcagc tggttcgcct actggggcca aggcactctc 360

gtcaccgtgt catcc 375

<210> 575
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 575
caggccgtcg tgacccagga accgagcctg accgtgtccc ccggcggtac cgtgaccttg 60

acttgcggtt cctccactgg agccgtgact acctcgaact acgccaactg ggtgcagcag 120

aagccgggaa agtcgcctcg cggactgatc ggtggaacta acaaacgcgc cccgggcgtg 180

ccagccagat tcagcggtag cctgctcggc ggaaaggccg cgctgaccat ctccggggcc 240

cagcccgagg atgaggccga ctattactgc gctctgtggt actccaacca ctgggtgttt 300

ggcgggggca ctaagctgac tgtgctg 327

<210> 576
<211> 762
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 576
gaggtgcagc tcgtcgaatc cggtggaggg ctggtgcaac cgggggctc gcttaggctt 60

agctgcgctg cgtcagggtt caccttctca acttacgcga tgaattgggt cagacaggca 120

cccggaaagg gactggaatg ggtcggaaga atcagatcga aggccaacaa ctacgccact 180

tactacgccg actccgtgaa gggaaggttc actatctcgc gggacgactc caagaacact 240

ctgtatctcc aaatgaactc actccgggcc gaggatactg cggtgtacta ttgcgtgcgg 300

catggaaact tcggggacag ctacgtcagc tggttcgcct actggggcca aggcactctc 360

gtcaccgtgt catccgggaa gccgggttcc ggaaagcctg gatcgggcaa accgggatcg 420

ggaaaacccg gaagccaggc cgtcgtgacc caggaaccga gcctgaccgt gtcccccggc 480

ggtaccgtga ccttgacttg cggttcctcc actggagccg tgactacctc gaactacgcc 540

aactgggtgc agcagaagcc gggaaagtcg cctcgcggac tgatcggtgg aactaacaaa 600

cgcgccccgg gcgtgccagc cagattcagc ggtagcctgc tcggcggaaa ggccgcgctg 660

accatctccg gggcccagcc cgaggatgag gccgactatt actgcgctct gtggtactcc 720

aaccactggg tgtttggcgg gggcactaag ctgactgtgc tg 762

<210> 577
<211> 1350
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 577
gaagtgcaac ttttggaaag cggaggcgga ttggtgcaac ctggcggctc actgagactg 60

agctgcgccg cctccggatt cactttctcc tcctacgcca tgtcctgggt ccgacaggcg 120

cccgggaagg gcctcgaatg ggtgtcggcc atttccggat ctggtggaag cacctactac 180

gctgatagcg tgaagggtcg cttcaccatt tcgcgcgaca attcgaagaa caccctgtat 240

ctgcaaatga atagcttgag agccgaagat accgccgtgt actactgcgc acggcgggag 300

tggtggtacg acgattggta cctggactac tgggggcagg ggacactcgt gaccgtgtcg 360

agcgcttcca ccaagggacc gagcgtgttc ccgctggcgc cgagcagcaa atcgacttct 420

gggggaaccg cagccctggg ttgcctggtc aaggactact tcccggaacc agtcactgtg 480

tcctggaaca gcggtgccct cacctcgggc gtgcacacct tcccggccgt gctgcagtct 540

agcggactct actcgctctc ctccgtggtc accgtgccct cctcatcact gggaacccag 600

acatacattt gcaacgtgaa ccacaagccc tcggacacta aggtggacaa aaaagtggaa 660

ccaaagtcct gcgacaagac ccacacttgt ccgccctgcc ctgcccctcc cgtggcgggc 720

ccgtcagtgt ttctgtttcc gccaaagcct aaggataccc tcatgatcag ccgcactcct 780

gaagtgacct gtgtcgtggt ggacgtgaaa cacgaggacc cggaggtcaa gtttaattgg 840

tacgtggatg gggtggaggt gcacaacgcc aaaactaagc cccgggaaga agagtacaat 900

tccacctacc gcgtcgtgtc agtgttgacg gtcctgcacc aagactggct gaacggaaag 960

gagtacaagt gcaaggtgtc caacaaggca ctgcccgccc ccatcgaaaa gaccatttca 1020

aaagctaagg gccagccgcg ggaaccacag gtctacaccc tgcctccctc ccgggaagag 1080

atgaccaaga accaagtctc cctcacgtgt gacgtgtccg gcttctaccc ttcggacatt 1140

gctgtggaat gggagtccga cgggcagccc gaaaacaact acaagaccac tcccctgtg 1200

ctggactccg acggctcatt ctttctgtac tccaagctca ccgtcgataa gtcgagatgg 1260

gagcagggag atgtgttctc ctgctccgtg atgcacgagg ccctgcataa ccattacact 1320

cagaagtccc tctccctgtc ccctgggaag 1350

<210> 578
<211> 2169
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 578
gaagtgcaac ttttggaaag cggaggcgga ttggtgcaac ctggcggctc actgagactg 60

agctgcgccg cctccggatt cactttctcc tcctacgcca tgtcctgggt ccgacaggcg 120

cccgggaagg gcctcgaatg ggtgtcggcc atttccggat ctggtggaag cacctactac 180

gctgatagcg tgaagggtcg cttcaccatt tcgcgcgaca attcgaagaa caccctgtat 240

ctgcaaatga atagcttgag agccgaagat accgccgtgt actactgcgc acggcgggag 300

tggtggtacg acgattggta cctggactac tgggggcagg ggacactcgt gaccgtgtcg 360

agcgcttcca ccaagggacc gagcgtgttc ccgctggcgc cgagcagcaa atcgacttct 420

gggggaaccg cagccctggg ttgcctggtc aaggactact tcccggaacc agtcactgtg 480

tcctggaaca gcggtgccct cacctcgggc gtgcacacct tcccggccgt gctgcagtct 540

agcggactct actcgctctc ctccgtggtc accgtgccct cctcatcact gggaacccag 600

acatacattt gcaacgtgaa ccacaagccg tccaacacca aggtcgacaa gaaagtggag 660

cctaagtcct gtggtggcgg aggctccggc ggaggaggat cggaggtgca gctcgtcgaa 720

tccggtggag ggctggtgca accgggggggc tcgcttaggc ttagctgcgc tgcgtcaggg 780

ttcaccttct caacttacgc gatgaattgg gtcagacagg cacccggaaa gggactggaa 840

tgggtcggaa gaatcagatc gaaggccaac aactacgcca cttactacgc cgactccgtg 900

aagggaaggt tcactatctc gcgggacgac tccaagaaca ctctgtatct ccaaatgaac 960

tcactccggg ccgaggatac tgcggtgtac tattgcgtgc ggcatggaaa cttcggggac 1020

agctacgtca gctggttcgc ctactggggc caaggcactc tcgtcaccgt gtcatccggg 1080

aagccgggtt ccggaaagcc tggatcgggc aaaccgggat cgggaaaacc cggaagccag 1140

gccgtcgtga cccaggaacc gagcctgacc gtgtcccccg gcggtaccgt gaccttgact 1200

tgcggttcct ccactggagc cgtgactacc tcgaactacg ccaactgggt gcagcagaag 1260

ccgggaaagt cgcctcgcgg actgatcggt ggaactaaca aacgcgcccc gggcgtgcca 1320

gccagattca gcggtagcct gctcggcgga aaggccgcgc tgaccatctc cggggcccag 1380

cccgaggatg aggccgacta ttactgcgct ctgtggtact ccaaccactg ggtgtttggc 1440

gggggcacta agctgactgt gctgggcggc ggcggctccg gggggggggg ctccaagacc 1500

cacacttgtc cgccctgccc tgcccctccc gtggcgggcc cgtcagtgtt tctgtttccg 1560

ccaaagccta aggataccct catgatcagc cgcactcctg aagtgacctg tgtcgtggtg 1620

gacgtgaaac acgaggaccc ggaggtcaag tttaattggt acgtggatgg ggtggaggtg 1680

cacaacgcca aaactaagcc ccgggaagaa cagtacaatt ccacctaccg cgtcgtgtca 1740

gtgttgacgg tcctgcacca agactggctg aacggaaagg agtacaagtg caaggtgtcc 1800

aacaaggcac tgcccgcccc catcgaaaag accatttcaa aagctaaggg ccagccgcgg 1860

gaaccacagg tctacaccct gcctccctcc cgggaacaga tgaccaagaa ccaagtcaag 1920

ctcacgtgtc tcgtgaaggg cttctaccct tcggacattg ctgtggaatg ggagtccaac 1980

gggcagcccg aaaacaacta caagaccact ccccctgtgc tggactccga cggctcattc 2040

tttctgtact ccaagctcac cgtcgataag tcgagatggc agcagggaaa cgtgttctcc 2100

tgctccgtga tgcacgaggc cctgcataac cattacactc agaagtccct ctccctgtcc 2160

cctgggaag 2169

<210> 579
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 579
gaagtgcagc tgctggagag cggcggaggt ctggtgcagc caggcggatc cttgcgcctc 60

agttgtgccg cgtccggatt cactttctcg tcttacgcca tgtcctgggt cagacaggcc 120

cctgggaagg gtctggagtg ggtgtccgcg atcagcgagt caggagggag agccgcctac 180

gccgactccg tgaagggccg ctttaccatt tcgcgggaca actccaagaa caccctgtac 240

cttcaaatga acagcctgcg ggcagaggac accgccgtct actactgcgc ccggagggaa 300

tggtggtacg atgattggta tctggactac tggggccagg gaactctcgt gaccgtgtcc 360

tcg 363

<210> 580
<211> 224
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 580
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Glu Ser Gly Gly Arg Ala Ala Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly 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 Arg Glu Trp Trp Tyr Asp Asp Trp Tyr Leu Asp Tyr Trp Gly
            100                 105                 110

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

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asp Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
    210                 215                 220
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<210> 581
<211> 672
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 581
gaagtgcagc tgctggagag cggcggaggt ctggtgcagc caggcggatc cttgcgcctc 60

agttgtgccg cgtccggatt cactttctcg tcttacgcca tgtcctgggt cagacaggcc 120

cctgggaagg gtctggagtg ggtgtccgcg atcagcgagt caggagggag agccgcctac 180

gccgactccg tgaagggccg ctttaccatt tcgcgggaca actccaagaa caccctgtac 240

cttcaaatga acagcctgcg ggcagaggac accgccgtct actactgcgc ccggagggaa 300

tggtggtacg atgattggta tctggactac tggggccagg gaactctcgt gaccgtgtcc 360

tcggctagca ccaagggccc gtcagtgttt cctctggccc caagctccaa gtccacctcc 420

ggtggtacag ccgcgttggg atgcttggtc aaggactact ttccggaacc cgtgaccgtg 480

tcctggaact ccggcgccct gactagcgga gtgcacacct tccccgctgt gctgcagtct 540

agcgggctgt attccctctc gtccgtggtc accgtgccgt cctcatccct gggaacccag 600

acctacattt gcaacgtgaa ccacaagccg tcagacacca aggtggacaa gaaggtggag 660

ccgaagtcct gc 672

<210> 582
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 582
gacattcaga tgacccagtc cccgtcctcg ctgagcgcat cagtcggcga tcgcgtgact 60

attacttgtc gggcgtccca gtcgatctcc tcgtacttga actggtatca gcagaagccc 120

ggaaaagccc cgaagttact gatctacgct gcctcatccc tccaatctgg ggtgccttcg 180

cggttctccg gttccggaag cggaaccgac ttcaccctga ccatcagcag cctgcagcca 240

gaggactttg ccacctacta ctgccagcag tcctactcca cacccctcac tttcggacaa 300

ggcaccaagg tcgaaatcaa g 321

<210> 583
<211> 642
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 583
gacattcaga tgacccagtc cccgtcctcg ctgagcgcat cagtcggcga tcgcgtgact 60

attacttgtc gggcgtccca gtcgatctcc tcgtacttga actggtatca gcagaagccc 120

ggaaaagccc cgaagttact gatctacgct gcctcatccc tccaatctgg ggtgccttcg 180

cggttctccg gttccggaag cggaaccgac ttcaccctga ccatcagcag cctgcagcca 240

gaggactttg ccacctacta ctgccagcag tcctactcca cacccctcac tttcggacaa 300

ggcaccaagg tcgaaatcaa gcgtacggtg gccgctccca gcgtgttcat cttccccccc 360

agcgacgagc agctgaagag cggcaccgcc agcgtggtgt gcctgctgaa caacttctac 420

ccccgggagg ccaaggtgca gtggaaggtg gacaacgccc tgcagagcgg caacagccag 480

gagagcgtca ccgagcagga cagcaaggac tccacctaca gcctgagcag caccctgacc 540

ctgagcaagg ccgactacga gaagcataag gtgtacgcct gcgaggtgac ccaccagggc 600

ctgtccagcc ccgtgaccaa gagcttcaac aggggcgagt gc 642

<210> 584
<211> 1350
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 584
gaagtgcagc tgctggagag cggcggaggt ctggtgcagc caggcggatc cttgcgcctc 60

agttgtgccg cgtccggatt cactttctcg tcttacgcca tgtcctgggt cagacaggcc 120

cctgggaagg gtctggagtg ggtgtccgcg atcagcgagt caggagggag agccgcctac 180

gccgactccg tgaagggccg ctttaccatt tcgcgggaca actccaagaa caccctgtac 240

cttcaaatga acagcctgcg ggcagaggac accgccgtct actactgcgc ccggagggaa 300

tggtggtacg atgattggta tctggactac tggggccagg gaactctcgt gaccgtgtcc 360

tcggctagca ccaagggccc gtcagtgttt cctctggccc caagctccaa gtccacctcc 420

ggtggtacag ccgcgttggg atgcttggtc aaggactact ttccggaacc cgtgaccgtg 480

tcctggaact ccggcgccct gactagcgga gtgcacacct tccccgctgt gctgcagtct 540

agcgggctgt attccctctc gtccgtggtc accgtgccgt cctcatccct gggaacccag 600

acctacattt gcaacgtgaa ccacaagccg tcagacacca aggtggacaa gaaggtggag 660

ccgaagtcct gcgacaagac ccatacttgt cctccttgcc ccgctccacc tgtggcggga 720

ccttccgtgt tccttttccc gccgaagccg aaggacactc tgatgatctc gcggactccc 780

gaagtcactt gcgtggtggt ggacgtcaaa cacgaagatc ccgaggtcaa gttcaattgg 840

tacgtggacg gggtggaagt ccacaacgcc aagactaagc cgcgcgagga agagtacaat 900

tccacttacc gggtcgtgtc ggtgctgact gtgctgcatc aggactggct gaacggaaag 960

gagtacaagt gcaaagtgtc gaacaaggcc ctgcctgcac caatcgaaaa gaccattagc 1020

aaagccaagg gccagccgag agaaccccaa gtctacactc tgccaccatc ccgcgaagaa 1080

atgaccaaga accaagtgtc gctgacgtgc gacgtgtcgg gattctaccc gtccgatatt 1140

gccgtggaat gggagagcga cggccaaccc gagaacaact acaagactac ccccccgtc 1200

ttggattccg atggttcctt cttcctgtac tccaagctga ccgtggataa gtcccgatgg 1260

gagcagggcg atgtgttctc gtgctccgtg atgcatgaag ccctgcacaa ccactatacc 1320

cagaagtcac tgtcgctgag ccctgggaag 1350

<210> 585
<211> 672
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 585
gaagtgcagc tgctggagag cggcggaggt ctggtgcagc caggcggatc cttgcgcctc 60

agttgtgccg cgtccggatt cactttctcg tcttacgcca tgtcctgggt cagacaggcc 120

cctgggaagg gtctggagtg ggtgtccgcg atcagcgagt caggagggag agccgcctac 180

gccgactccg tgaagggccg ctttaccatt tcgcgggaca actccaagaa caccctgtac 240

cttcaaatga acagcctgcg ggcagaggac accgccgtct actactgcgc ccggagggaa 300

tggtggtacg atgattggta tctggactac tggggccagg gaactctcgt gaccgtgtcc 360

tcggctagca ccaagggtcc gtcagtgttt cctctggccc caagctccaa gtccacctcc 420

ggtggtacag ccgcgttggg atgcttggtc aaggactact ttccggaacc cgtgaccgtg 480

tcctggaact ccggcgccct gactagcgga gtgcacacct tccccgctgt gctgcagtct 540

agcgggctgt attccctctc gtccgtggtc accgtgccgt cctcatccct gggaacccag 600

acctacattt gcaacgtgaa ccacaagccg tcagacacca aggtggacaa gaaggtggag 660

ccgaagtcct gc 672

<210> 586
<211> 375
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 586
gaagtccaac tggtcgagtc aggcggcgga cttgtccagc ccggaggtag cctgcgcctc 60

tcctgtgctg cctccggttt taccttctcg acctatgcca tgaactgggt gcgccaagca 120

cctgggaagg gactcgaatg ggtcggcagg attcggtcca aggccaacaa ctacgctacc 180

tactacgccg actcggtcaa ggggcggttc actatttccc gcgacgactc caagaacact 240

ctgtatcttc agatgaatag cttgagagcc gaggataccg ccgtgtacta ttgcgtgcgc 300

cacgggaact tcggcgattc ctacgtgtcc tggttcgctt actggggaca gggcaccctg 360

gtcaccgtgt caagc 375

<210> 587
<211> 326
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 587
aggcggtggt gacccaagaa ccctccctga ccgtgtcacc gggaggcacc gtgaccctga 60

cttgcgggag ctccactggc gcagtgacta catccaacta cgccaactgg gtgcagcaga 120

agcctggaaa gtccccgaga ggactcattg gaggaaccaa caagagagcc cctggtgtcc 180

ctgcccgctt tagcggttcg ctgttgggag gaaaggccgc tctgactatt tccggcgctc 240

agccagagga cgaggctgac tactactgcg cattgtggta ctccaatcac tgggtgttcg 300

gaggggggcac taagctgacc gtgctg 326

<210> 588
<211> 762
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 588
gaagtccaac tggtcgagtc aggcggcgga cttgtccagc ccggaggtag cctgcgcctc 60

tcctgtgctg cctccggttt taccttctcg acctatgcca tgaactgggt gcgccaagca 120

cctgggaagg gactcgaatg ggtcggcagg attcggtcca aggccaacaa ctacgctacc 180

tactacgccg actcggtcaa ggggcggttc actatttccc gcgacgactc caagaacact 240

ctgtatcttc agatgaatag cttgagagcc gaggataccg ccgtgtacta ttgcgtgcgc 300

cacgggaact tcggcgattc ctacgtgtcc tggttcgctt actggggaca gggcaccctg 360

gtcaccgtgt caagcggaaa gcccgggtcc ggaaaacccg ggtcgggaaa gccggggagc 420

ggaaagcccg gttcacaggc ggtggtgacc caagaaccct ccctgaccgt gtcaccggga 480

ggcaccgtga ccctgacttg cgggagctcc actggcgcag tgactacatc caactacgcc 540

aactgggtgc agcagaagcc tggaaagtcc ccgagaggac tcattggagg aaccaacaag 600

agagcccctg gtgtccctgc ccgctttagc ggttcgctgt tgggaggaaa ggccgctctg 660

actatttccg gcgctcagcc agaggacgag gctgactact actgcgcatt gtggtactcc 720

aatcactggg tgttcggagg gggcactaag ctgaccgtgc tg 762

<210> 589
<211> 1350
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 589
gaagtgcagc tgctggagag cggcggaggt ctggtgcagc caggcggatc cttgcgcctc 60

agttgtgccg cgtccggatt cactttctcg tcttacgcca tgtcctgggt cagacaggcc 120

cctgggaagg gtctggagtg ggtgtccgcg atcagcgagt caggagggag agccgcctac 180

gccgactccg tgaagggccg ctttaccatt tcgcgggaca actccaagaa caccctgtac 240

cttcaaatga acagcctgcg ggcagaggac accgccgtct actactgcgc ccggagggaa 300

tggtggtacg atgattggta tctggactac tggggccagg gaactctcgt gaccgtgtcc 360

tcggctagca ccaagggtcc gtcagtgttt cctctggccc caagctccaa gtccacctcc 420

ggtggtacag ccgcgttggg atgcttggtc aaggactact ttccggaacc cgtgaccgtg 480

tcctggaact ccggcgccct gactagcgga gtgcacacct tccccgctgt gctgcagtct 540

agcgggctgt attccctctc gtccgtggtc accgtgccgt cctcatccct gggaacccag 600

acctacattt gcaacgtgaa ccacaagccg tcagacacca aggtggacaa gaaggtggag 660

ccgaagtcct gcgacaagac ccatacttgt cctccttgcc ccgctccacc tgtggcggga 720

ccttccgtgt tccttttccc gccgaagccg aaggacactc tgatgatctc gcggactccc 780

gaagtcactt gcgtggtggt ggacgtcaaa cacgaagatc ccgaggtcaa gttcaattgg 840

tacgtggacg gggtggaagt ccacaacgcc aagactaagc cgcgcgagga agagtacaat 900

tccacttacc gggtcgtgtc ggtgctgact gtgctgcatc aggactggct gaacggaaag 960

gagtacaagt gcaaagtgtc gaacaaggcc ctgcctgcac caatcgaaaa gaccattagc 1020

aaagccaagg gccagccgag agaaccccaa gtctacactc tgccaccatc ccgcgaagaa 1080

atgaccaaga accaagtgtc gctgacgtgc gacgtgtcgg gattctaccc gtccgatatt 1140

gccgtggaat gggagagcga cggccaaccc gagaacaact acaagactac cccccccgtc 1200

ttggattccg atggttcctt cttcctgtac tccaagctga ccgtggataa gtcccgatgg 1260

gagcagggcg atgtgttctc gtgctccgtg atgcatgaag ccctgcacaa ccactatacc 1320

cagaagtcac tgtcgctgag ccctgggaag 1350

<210> 590
<211> 2169
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 590
gaagtgcagc tgctggagag cggcggaggt ctggtgcagc caggcggatc cttgcgcctc 60

agttgtgccg cgtccggatt cactttctcg tcttacgcca tgtcctgggt cagacaggcc 120

cctgggaagg gtctggagtg ggtgtccgcg atcagcgagt caggagggag agccgcctac 180

gccgactccg tgaagggccg ctttaccatt tcgcgggaca actccaagaa caccctgtac 240

cttcaaatga acagcctgcg ggcagaggac accgccgtct actactgcgc ccggagggaa 300

tggtggtacg atgattggta tctggactac tggggccagg gaactctcgt gaccgtgtcc 360

tcggctagca ccaagggccc ttcggtgttc cccctcgccc cttcatcaaa gtccacttca 420

ggaggaaccg ccgccttggg ttgcctcgtg aaggattact tccccgaacc agtgaccgtg 480

tcctggaact ccggagccct gaccagcgga gtgcacactt tccctgcggt gttgcagagc 540

tccggcctct acagcctgag cagcgtggtg accgtgccga gctcctccct gggcactcag 600

acctacatct gcaacgtcaa ccacaagccc tcgaatacca aggtcgacaa gaaggtggag 660

ccgaagtcct gtggcggagg aggatcggga gggggtggat cggaagtcca actggtcgag 720

tcaggcggcg gacttgtcca gcccggaggt agcctgcgcc tctcctgtgc tgcctccggt 780

tttaccttct cgacctatgc catgaactgg gtgcgccaag cacctgggaa gggactcgaa 840

tgggtcggca ggattcggtc caaggccaac aactacgcta cctactacgc cgactcggtc 900

aaggggcggt tcactatttc ccgcgacgac tccaagaaca ctctgtatct tcagatgaat 960

agcttgagag ccgaggatac cgccgtgtac tattgcgtgc gccacgggaa cttcggcgat 1020

tcctacgtgt cctggttcgc ttactgggga cagggcaccc tggtcaccgt gtcaagcgga 1080

aagcccgggt ccggaaaacc cgggtcggga aagccgggga gcggaaagcc cggttcacag 1140

gcggtggtga cccaagaacc ctccctgacc gtgtcaccgg gaggcaccgt gaccctgact 1200

tgcgggagct ccactggcgc agtgactaca tccaactacg ccaactgggt gcagcagaag 1260

cctggaaagt ccccgagagg actcattgga ggaaccaaca agagagcccc tggtgtccct 1320

gcccgcttta gcggttcgct gttgggagga aaggccgctc tgactatttc cggcgctcag 1380

ccagaggacg aggctgacta ctactgcgca ttgtggtact ccaatcactg ggtgttcgga 1440

gggggcacta agctgaccgt gctgggtggt ggcggatctg gtggtggcgg ctcgaaaacc 1500

cacacctgtc caccttgtcc ggcgcctcct gtcgctggac cctccgtgtt cctcttccct 1560

cccaagccga aggatacgct gatgatcagc cggacccccg aagtgacttg tgtggtggtg 1620

gatgtgaagc acgaagatcc cgaagtcaag ttcaactggt acgtggacgg agtggaggtc 1680

cacaatgcca agaccaagcc gcgggaagaa cagtacaact cgacctaccg ggtggtcagc 1740

gtgctgactg tgctccacca agactggctg aacgggaagg agtacaagtg caaagtgtcg 1800

aacaaggccc ttcctgcacc tatcgaaaag accatctcca aggcgaaagg acagccgaga 1860

gagccccagg tctacactct gccgccatcc agagagcaaa tgaccaagaa ccaagtcaag 1920

ctgacctgtc ttgtcaaggg tttctacccg tccgatatcg cggtcgaatg ggagtcaaac 1980

ggccagcccg agaacaacta caagactacc ccaccggtgc ttgactccga cggttcgttc 2040

tttctgtact ccaagctgac cgtggacaag tcccggtggc agcaagggaa tgtgttcagc 2100

tgctccgtga tgcacgaagc cctgcataac cactacaccc agaagtcgct cagcctgtcc 2160

cctggaaaa 2169

<210> 591
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 591
caagtgcagc tcgtggagtc tggaggggga gtcgtgcagc ctggacgctc cctgagactg 60

tcctgtgcgg cttcgggatt cactgtgtcc agctacggca tgcattgggt ccgccaagca 120

ccgggaaaag gcctggagtg ggtggccgtg atctcctaca ccggctcaaa caagtactac 180

gccgacagcg tgaagggccg gttcaccatt tcaagggaca actccaagaa taccctgtat 240

ctgcaaatga actcgctgcg ggcagaggac accgccgtgt actactgcgg tggctccggt 300

tacgccctgc acgatgacta ctacgggctc gatgtctggg gacaggggac gctcgtgact 360

gtgtcctcg 369

<210> 592
<211> 226
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 592
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 Val Ser Ser Tyr
20 25 30

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

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

Lys Gly 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

Gly Gly Ser Gly Tyr Ala Leu His Asp Asp Tyr Tyr Gly Leu Asp Val
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
115 120 125

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
130 135 140

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145 150 155 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
165 170 175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
            180   185   190

Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
        195   200   205

Asn His Lys Pro Ser Asp Thr Lys Val Asp Lys Lys Val Glu Pro Lys
    210   215   220

Ser Cys
225

<210> 593
<211> 678
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polynucleotide"

<400> 593
caagtgcagc tcgtggagtc tggaggggga gtcgtgcagc ctggacgctc cctgagactg 60

tcctgtgcgg cttcgggatt cactgtgtcc agctacggca tgcattgggt ccgccaagca 120

ccgggaaaag gcctggagtg ggtggccgtg atctcctaca ccggctcaaa caagtactac 180

gccgacagcg tgaagggccg gttcaccatt tcaagggaca actccaagaa taccctgtat 240

ctgcaaatga actcgctgcg ggcagaggac accgccgtgt actactgcgg tggctccggt 300

tacgccctgc acgatgacta ctacgggctc gatgtctggg gacaggggac gctcgtgact 360

gtgtcctcgg ctagcaccaa gggcccgtca gtgtttcctc tggccccaag ctccaagtcc 420

acctccggtg gtacagccgc gttgggatgc ttggtcaagg actactttcc ggaacccgtg 480

accgtgtcct ggaactccgg cgccctgact agcggagtgc acaccttccc cgctgtgctg 540

cagtctagcg ggctgtattc cctctcgtcc gtggtcaccg tgccgtcctc atccctggga 600

acccagacct acatttgcaa cgtgaaccac aagccgtcag acaccaaggt ggacaagaag 660

gtggagccga agtcctgc 678

<210> 594
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 594
cagtcggcgc tgactcagcc cgcatccgtg agcggttcac cgggacagag catcaccatt 60

tcctgcaccg gaacctcaag cgacgtgggc ggctacaact acgtgtcctg gtatcagcag 120

cacccgggaa aggccccaaa gctcatgatc tacgacgtgt ccaatagact gcggggagtg 180

tccaaccggt tctcgggaag caaatccggc aacactgctt ccctgaccat cagcggactc 240

caggccgaag atgaggccga ctactactgc tcatcctaca cgtcctcttc ggcgctttac 300

gtgttcgggt cggggaccaa ggtcaccgtc ctg 333

<210> 595
<211> 651
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 595
cagtcggcgc tgactcagcc cgcatccgtg agcggttcac cgggacagag catcaccatt 60

tcctgcaccg gaacctcaag cgacgtgggc ggctacaact acgtgtcctg gtatcagcag 120

cacccgggaa aggccccaaa gctcatgatc tacgacgtgt ccaatagact gcggggagtg 180

tccaaccggt tctcgggaag caaatccggc aacactgctt ccctgaccat cagcggactc 240

caggccgaag atgaggccga ctactactgc tcatcctaca cgtcctcttc ggcgctttac 300

gtgttcgggt cggggaccaa ggtcaccgtc ctgggccaac ctaaggcggc gccctcagtg 360

accctgttcc ctccgtcgtc tgaagaactc caggccaaca aggccaccct cgtgtgcctg 420

atttcggact tctacccggg agccgtcact gtggcctgga aggccgacag cagcccagtg 480

aaggccggcg tggaaactac caccccgtcc aagcagtcca acaataagta cgcagccagc 540

tcctacctgt ccctgacccc cgaacaatgg aagtcacaca gatcctactc ctgtcaagtc 600

acccacgagg gcagcactgt cgaaaagacc gtggcaccga ctgagtgctc g 651

<210> 596
<211> 1356
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 596
caagtgcagc tcgtggagtc tggaggggga gtcgtgcagc ctggacgctc cctgagactg 60

tcctgtgcgg cttcgggatt cactgtgtcc agctacggca tgcattgggt ccgccaagca 120

ccgggaaaag gcctggagtg ggtggccgtg atctcctaca ccggctcaaa caagtactac 180

gccgacagcg tgaagggccg gttcaccatt tcaagggaca actccaagaa taccctgtat 240

ctgcaaatga actcgctgcg ggcagaggac accgccgtgt actactgcgg tggctccggt 300

tacgccctgc acgatgacta ctacgggctc gatgtctggg gacaggggac gctcgtgact 360

gtgtcctcgg ctagcaccaa gggcccgtca gtgtttcctc tggccccaag ctccaagtcc 420

acctccggtg gtacagccgc gttgggatgc ttggtcaagg actactttcc ggaacccgtg 480

accgtgtcct ggaactccgg cgccctgact agcggagtgc acaccttccc cgctgtgctg 540

cagtctagcg ggctgtattc cctctcgtcc gtggtcaccg tgccgtcctc atccctggga 600

acccagacct acatttgcaa cgtgaaccac aagccgtcag acaccaaggt ggacaagaag 660

gtggagccga agtcctgcga caagacccat acttgtcctc cttgccccgc tccacctgtg 720

gcgggacctt ccgtgttcct ttcccgccg aagccgaagg acactctgat gatctcgcgg 780

actcccgaag tcacttgcgt ggtggtggac gtcaaacacg aagatcccga ggtcaagttc 840

aattggtacg tggacggggt ggaagtccac aacgccaaga ctaagccgcg cgaggaagag 900

tacaattcca cttaccgggt cgtgtcggtg ctgactgtgc tgcatcagga ctggctgaac 960

ggaaaggagt acaagtgcaa agtgtcgaac aaggccctgc ctgcaccaat cgaaaagacc 1020

attagcaaag ccaagggcca gccgagagaa ccccaagtct acactctgcc accatcccgc 1080

gaagaaatga ccaagaacca agtgtcgctg acgtgcgacg tgtcgggatt ctacccgtcc 1140

gatattgccg tggaatggga gagcgacggc caacccgaga acaactacaa gactaccccc 1200

cccgtcttgg attccgatgg ttccttcttc ctgtactcca agctgaccgt ggataagtcc 1260

cgatgggagc agggcgatgt gttctcgtgc tccgtgatgc atgaagccct gcacaaccac 1320

tatacccaga agtcactgtc gctgagccct gggaag 1356

<210> 597
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 597
caagtgcagc ttgtggagtc gggaggggga gtggtgcagc ctggtcgctc actgaggctg 60

agctgtgctg cctccggctt taccgtgtcc tcctacggaa tgcattgggt cagacaggca 120

ccgggaaaag gcctggaatg ggtggccgtc atcagctaca ccggctccaa caagtactac 180

gccgactcag tgaaggggcg gttcactatt agccgcgata actcgaagaa taccctgtat 240

ctgcaaatga actctttgcg ggccgaagat accgccgtgt actactgcgg aggctccggt 300

tacgcgctcc acgacgacta ctacggactg gacgtgtggg gacaggggac tctcgtgacc 360

gtgtcgtcc 369

<210> 598
<211> 678
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 598
caagtgcagc ttgtggagtc gggaggggga gtggtgcagc ctggtcgctc actgaggctg 60

agctgtgctg cctccggctt taccgtgtcc tcctacggaa tgcattgggt cagacaggca 120

ccgggaaaag gcctggaatg ggtggccgtc atcagctaca ccggctccaa caagtactac 180

gccgactcag tgaaggggcg gttcactatt agccgcgata actcgaagaa taccctgtat 240

ctgcaaatga actctttgcg ggccgaagat accgccgtgt actactgcgg aggctccggt 300

tacgcgctcc acgacgacta ctacggactg gacgtgtggg gacaggggac tctcgtgacc 360

gtgtcgtccg ctagcaccaa gggaccgagc gtgttcccgc tggcgccgag cagcaaatcg 420

acttctgggg gaaccgcagc cctgggttgc ctggtcaagg actacttccc ggaaccagtc 480

actgtgtcct ggaacagcgg tgccctcacc tcgggcgtgc acaccttccc ggccgtgctg 540

cagtctagcg gactctactc gctctcctcc gtggtcaccg tgccctcctc atcactggga 600

acccagacat acatttgcaa cgtgaaccac aagccctcgg acactaaggt ggacaaaaaa 660

gtggaaccaa agtcctgc 678

<210> 599
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 599
caatccgccc tgactcagcc ggccagcgtg tcaggttccc cgggccaaag cattaccatc 60

tcctgcactg ggacctcctc cgatgtcggg ggctacaact acgtgtcgtg gtatcagcag 120

caccctggaa aggcgcccaa gctgatgatc tacgacgtgt ccaaccggct gaggggagtc 180

agcaaccgct tcagcggctc caagtccgga aacaccgcat cactcacaat cagcggtctg 240

caggctgagg atgaagcgga ctactactgt tcctcctaca cctcctcctc ggcgctttac 300

gtctttgggt cgggaaccaa agtcactgtg ctg 333

<210> 600
<211> 651
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 600
caatccgccc tgactcagcc ggccagcgtg tcaggttccc cgggccaaag cattaccatc 60

tcctgcactg ggacctcctc cgatgtcggg ggctacaact acgtgtcgtg gtatcagcag 120

caccctggaa aggcgcccaa gctgatgatc tacgacgtgt ccaaccggct gaggggagtc 180

agcaaccgct tcagcggctc caagtccgga aacaccgcat cactcacaat cagcggtctg 240

caggctgagg atgaagcgga ctactactgt tcctcctaca cctcctcctc ggcgctttac 300

gtctttgggt cgggaaccaa agtcactgtg ctgggacagc cgaaggcagc cccatccgtg 360

accctgttcc ccccgtcatc cgaggaactg caggctaaca aggccaccct cgtgtgcctg 420

attagcgact tctaccctgg agccgtgacc gtggcctgga aggccgactc cagcccagtg 480

aaggccggag tggagactac caccccgagc aaacagtcga acaataagta cgccgcgtca 540

tcgtacctgt ccctcacgcc cgaacagtgg aagtcccata gatcgtactc ctgccaagtg 600

acccacgagg gcagcactgt ggaaaagact gtggccccta ccgagtgctc t 651

<210> 601
<211> 1356
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 601

caagtgcagc ttgtggagtc gggaggggga gtggtgcagc ctggtcgctc actgaggctg 60

agctgtgctg cctccggctt taccgtgtcc tcctacggaa tgcattgggt cagacaggca 120

ccgggaaaag gcctggaatg ggtggccgtc atcagctaca ccggctccaa caagtactac 180

gccgactcag tgaaggggcg gttcactatt agccgcgata actcgaagaa taccctgtat 240

ctgcaaatga actctttgcg ggccgaagat accgccgtgt actactgcgg aggctccggt 300

tacgcgctcc acgacgacta ctacggactg gacgtgtggg gacaggggac tctcgtgacc 360

gtgtcgtccg ctagcaccaa gggaccgagc gtgttcccgc tggcgccgag cagcaaatcg 420

acttctgggg gaaccgcagc cctgggttgc ctggtcaagg actacttccc ggaaccagtc 480

actgtgtcct ggaacagcgg tgccctcacc tcgggcgtgc acaccttccc ggccgtgctg 540

cagtctagcg gactctactc gctctcctcc gtggtcaccg tgccctcctc atcactggga 600

acccagacat acatttgcaa cgtgaaccac aagccctcgg acactaaggt ggacaaaaaa 660

gtggaaccaa agtcctgcga caagacccac acttgtccgc cctgccctgc ccctcccgtg 720

gcgggcccgt cagtgtttct gtttccgcca aagcctaagg ataccctcat gatcagccgc 780

actcctgaag tgacctgtgt cgtggtggac gtgaaacacg aggacccgga ggtcaagttt 840

aattggtacg tggatggggt ggaggtgcac aacgccaaaa ctaagccccg ggaagaagag 900

tacaattcca cctaccgcgt cgtgtcagtg ttgacggtcc tgcaccaaga ctggctgaac 960

ggaaaggagt acaagtgcaa ggtgtccaac aaggcactgc ccgccccccat cgaaaagacc 1020

atttcaaaag ctaagggcca gccgcgggaa ccacaggtct acaccctgcc tccctcccgg 1080

gaagagatga ccaagaacca agtctccctc acgtgtgacg tgtccggctt ctacccttcg 1140

gacattgctg tggaatggga gtccgacggg cagcccgaaa acaactacaa gaccactccc 1200

cctgtgctgg actccgacgg ctcattcttt ctgtactcca agctcaccgt cgataagtcg 1260

agatgggagc agggagatgt gttctcctgc tccgtgatgc acgaggccct gcataaccat 1320

tacactcaga agtccctctc cctgtcccct gggaag 1356

<210> 602
<211> 2175
<212> DNA

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 602
caagtgcagc ttgtggagtc gggaggggga gtggtgcagc ctggtcgctc actgaggctg 60

agctgtgctg cctccggctt taccgtgtcc tcctacggaa tgcattgggt cagacaggca 120

ccgggaaaag gcctggaatg ggtggccgtc atcagctaca ccggctccaa caagtactac 180

gccgactcag tgaaggggcg gttcactatt agccgcgata actcgaagaa taccctgtat 240

ctgcaaatga actctttgcg ggccgaagat accgccgtgt actactgcgg aggctccggt 300

tacgcgctcc acgacgacta ctacggactg gacgtgtggg gacaggggac tctcgtgacc 360

gtgtcgtccg ctagcaccaa gggaccgagc gtgttcccgc tggcgccgag cagcaaatcg 420

acttctgggg gaaccgcagc cctgggttgc ctggtcaagg actacttccc ggaaccagtc 480

actgtgtcct ggaacagcgg tgccctcacc tcgggcgtgc acaccttccc ggccgtgctg 540

cagtctagcg gactctactc gctctcctcc gtggtcaccg tgccctcctc atcactggga 600

acccagacat acatttgcaa cgtgaaccac aagccgtcca acaccaaggt cgacaagaaa 660

gtggagccta agtcctgtgg tggcggaggc tccggcggag gaggatcgga ggtgcagctc 720

gtcgaatccg gtggagggct ggtgcaaccg gggggctcgc ttaggcttag ctgcgctgcg 780

tcagggttca ccttctcaac ttacgcgatg aattgggtca gacaggcacc cggaaaggga 840

ctggaatggg tcggaagaat cagatcgaag gccaacaact acgccactta ctacgccgac 900

tccgtgaagg gaaggttcac tatctcgcgg gacgactcca agaacactct gtatctccaa 960

atgaactcac tccgggccga ggatactgcg gtgtactatt gcgtgcggca tggaaacttc 1020

ggggacagct acgtcagctg gttcgcctac tggggccaag gcactctcgt caccgtgtca 1080

tccgggaagc cgggttccgg aaagcctgga tcgggcaaac cgggatcggg aaaacccgga 1140

agccaggccg tcgtgaccca ggaaccgagc ctgaccgtgt cccccggcgg taccgtgacc 1200

ttgacttgcg gttcctccac tggagccgtg actacctcga actacgccaa ctgggtgcag 1260

cagaagccgg gaaagtcgcc tcgcggactg atcggtggaa ctaacaaacg cgccccgggc 1320

gtgccagcca gattcagcgg tagcctgctc ggcggaaagg ccgcgctgac catctccggg 1380

gcccagcccg aggatgaggc cgactattac tgcgctctgt ggtactccaa ccactgggtg 1440

tttggcgggg gcactaagct gactgtgctg ggcggcggcg gctccggggg ggggggctcc 1500

aagacccaca cttgtccgcc ctgccctgcc cctcccgtgg cgggcccgtc agtgtttctg 1560

tttccgccaa agcctaagga taccctcatg atcagccgca ctcctgaagt gacctgtgtc 1620

gtggtggacg tgaaacacga ggacccggag gtcaagttta attggtacgt ggatggggtg 1680

gaggtgcaca acgccaaaac taagccccgg gaagaacagt acaattccac ctaccgcgtc 1740

gtgtcagtgt tgacggtcct gcaccaagac tggctgaacg gaaaggagta caagtgcaag 1800

gtgtccaaca aggcactgcc cgcccccatc gaaaagacca tttcaaaagc taagggccag 1860

ccgcgggaac cacaggtcta caccctgcct ccctcccggg aacagatgac caagaaccaa 1920

gtcaagctca cgtgtctcgt gaagggcttc tacccttcgg acattgctgt ggaatgggag 1980

tccaacgggc agcccgaaaa caactacaag accactcccc ctgtgctgga ctccgacggc 2040

tcattctttc tgtactccaa gctcaccgtc gataagtcga gatggcagca gggaaacgtg 2100

ttctcctgct ccgtgatgca cgaggccctg cataaccatt acactcagaa gtccctctcc 2160

ctgtcccctg ggaag 2175

<210> 603
<211> 6
<212> PRT
<213> Artificial Sequence

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

<400> 603
His His His His His His
1 5