

SEQUENCE LISTING

<110> HARPOON THERAPEUTICS, INC.

<120> B CELL MATURATION ANTIGEN BINDING PROTEINS

<130> 47517-722.601

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<150> 62/572,375

<151> 2017-10-13

<160> 475

<170> PatentIn version 3.5

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Thr Asp Ile Phe Ser Ile Ser Pro Met Gly

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Thr Asn Ile Val Ser Ile Ser Pro Met Gly
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Thr Asn Ile Glu Ser Ile Ser Pro Met Gly
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Thr Asn Ile Pro Ser Ile Ser Pro Met Gly
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Thr Asn Ile Ala Ser Ile Ser Pro Met Gly

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Thr Asn Ile Phe Ser Gln Ser Pro Met Gly
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Thr Asn Ile Glu Ser Ile Ser Pro Met Gly
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Thr Asn Ile Phe Ser His Ser Pro Met Gly
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Thr Asn Ile Phe Ser Glu Ser Pro Met Gly
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Thr Asn Ile Asp Ser Ile Ser Pro Met Gly
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Thr Asn Ile Phe Ser Thr Ser Pro Met Gly
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Thr Asn Ile Ser Ser Ile Ser Pro Met Gly
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Ser Asn Ile Phe Ser Ile Ser Pro Met Gly
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Thr Asn Ile Phe Arg Ile Ser Pro Met Gly
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<223> Description of Artificial Sequence: Synthetic peptide

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Thr Asn Ile Val Ser Ile Ser Pro Met Gly
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Thr	Asn	Ile	Phe	Ser	Arg	Ser	Pro	Met	Gly
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Thr	Asn	Ile	Gln	Ser	Ile	Ser	Pro	Met	Gly
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Thr	Asn	Ile	Phe	Asn	Ile	Ser	Pro	Met	Gly
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<210> 59

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Thr	Asn	Glu	Phe	Ser	Ile	Ser	Pro	Met	Gly
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<210> 60

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Thr	Asn	Ile	Pro	Ser	Ile	Ser	Pro	Met	Gly
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Thr	Asn	Ile	Gly	Ser	Ile	Ser	Pro	Met	Gly
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<210> 62

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Thr	Asn	Ile	Phe	Ser	Lys	Ser	Pro	Met	Gly
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Thr Asn Ile Phe Ser Ile Thr Pro Met Gly
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<210> 65
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Thr Asn Ile Met Ser Ile Ser Pro Met Gly
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<210> 66
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<400> 66
Thr Asn Ile Met Ser Ile Ser Pro Met Gly

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<210> 67

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 67

Thr Asn Ile Pro Ser Ile Ser Pro Met Gly

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<210> 68

<211> 10

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 68

Thr Asn Ile Phe Ser Thr Ser Pro Met Gly

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<210> 69

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 69

Thr Asn Ile Phe Ser Gln Ser Pro Met Gly

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<210> 70

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Thr Asn Ile Ala Ser Ile Ser Pro Met Gly
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Thr Asn Ile Phe Ser Lys Ser Pro Met Gly
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Thr Asn Ile Phe Ser Arg Ser Pro Met Gly
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Thr Asn His Phe Ser Ile Ser Pro Met Gly
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<210> 74

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Thr Asn Ile Phe Ser Ile Ser Pro Tyr Gly
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<210> 77

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Thr Asn Ile Phe Ser Asn Ser Pro Met Gly
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<210> 78

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<223> Description of Artificial Sequence: Synthetic peptide

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Thr Asn Ile Phe Ser Ser Ser Pro Met Gly
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<210> 79

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<223> Description of Artificial Sequence: Synthetic peptide

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Thr Asn Ile Val Ser Ile Ser Pro Met Gly
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<210> 80

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<223> Description of Artificial Sequence: Synthetic peptide

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Thr Asn Ile Ser Ser Ile Ser Pro Met Gly
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<210> 81

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 81

Thr Asn Ile Ile Ser Ile Ser Pro Met Gly
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<210> 82

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<400> 82

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 83

Thr	Asn	Ile	Phe	Ser	Glu	Ser	Pro	Met	Gly
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<400> 86

Thr	Asn	Val	Val	Ser	Ile	Ser	Pro	Met	Gly
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Thr	Asn	Glu	Phe	Ser	Ile	Ser	Pro	Met	Gly
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Thr	Asn	Ile	Phe	Ser	Asn	Ser	Pro	Met	Gly
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Thr Asn Ile Phe Ser Asp Ser Pro Met Gly
1 5 10

<210> 91
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Thr Asn Asp Phe Ser Ile Ser Pro Met Gly
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Thr Asn Ile Phe Ser Lys Ser Pro Met Gly
1 5 10

<210> 93
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Thr Asn Ile Phe Ser Ile Tyr Pro Met Gly

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<210> 94

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Thr Asn Ile Phe Ser Ser Ser Pro Met Gly

1

5

10

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Thr Asn Ile Phe Ser Val Ser Pro Met Gly

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<210> 96

<211> 10

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 96

Thr Asn Ile Phe Ser Ile Thr Pro Met Gly

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<210> 97

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Thr Asn Ile Glu Ser Ile Ser Pro Met Gly
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<223> Description of Artificial Sequence: Synthetic
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Thr Asn Ile Phe Ser Thr Ser Pro Met Gly
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<210> 99

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<223> Description of Artificial Sequence: Synthetic
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Thr Asn Ile Glu Ser Ile Ser Pro Met Gly
1 5 10

<210> 100

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<223> Description of Artificial Sequence: Synthetic
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<223> Description of Artificial Sequence: Synthetic

peptide

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<210> 102

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peptide

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Thr Asn Ile Thr Ser Ile Ser Pro Met Gly
1 5 10

<210> 103

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peptide

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Thr Asn Ile Phe Ser Gly Ser Pro Met Gly
1 5 10

<210> 104

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Thr Asn Ile Phe Ser Ile Thr Pro Met Gly
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<210> 105

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Thr Asn Ile Asp Ser Ile Ser Pro Met Gly
1 5 10

<210> 106

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<400> 106

Thr Asn Ile Phe Ser Asp Ser Pro Met Gly
1 5 10

<210> 107

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Thr Asn Ile Asp Ser Ile Ser Pro Met Gly
1 5 10

<210> 108

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 108

Thr Asn Ile Phe Ser Lys Ser Pro Met Gly
1 5 10

<210> 109

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Thr	Asn	Ile	Phe	Ser	Val	Ser	Pro	Met	Gly
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<210> 111

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Thr	Asn	Ile	Arg	Ser	Ile	Ser	Pro	Met	Gly
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<210> 112

<211> 10

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<210> 115

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<210> 116

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Thr	Asn	Ile	Phe	Ser	Ile	Thr	Pro	Tyr	Gly
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<210> 117
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Thr Asn Ile Phe Ser Ile Thr Pro Gly Gly
1 5 10

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peptide

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

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peptide

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Ala Ile Asn Gly Phe Ser Thr Leu Tyr Ala Asp Ser Val Lys
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<210> 124

<211> 14

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peptide

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Ala Ile His Gly Thr Ser Thr Leu Tyr Ala Asp Ser Val Lys
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Ala Ile His Gly Glu Ser Thr Leu Tyr Ala Asp Ser Val Lys
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<210> 126

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peptide

<400> 126

Ala Ile His Gly Arg Ser Thr Leu Tyr Ala Asp Ser Val Lys
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<210> 127

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peptide

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<210> 128

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peptide

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peptide

<400> 129

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

<210> 130

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peptide

<400> 130

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

<210> 131

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<400> 131

Ala Ile His Gly Phe Glu Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 132

<211> 14

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<210> 133

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Ala	Ile	His	Gly	Asn	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 134

<211> 14

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<400> 134

Ala	Ile	His	Gly	Ser	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 135

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<400> 135

Ala	Ile	His	Gly	Ser	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 136

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<400> 136

Ala	Ile	His	Gly	Phe	Gln	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 137

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Ala	Ile	His	Gly	His	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 138

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<400> 138

Ala	Ile	His	Gly	Asn	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 139

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<400> 139

Ala	Ile	His	Gly	Asp	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 140

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<400> 140

Ala	Ile	His	Gly	Phe	Lys	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 141

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<400> 141

Ala	Ile	His	Gly	Asp	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 142

<211> 14

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<400> 142

Ala	Ile	His	Gly	Phe	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 143

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<400> 143

Ala	Ile	His	Gly	Gly	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 144
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peptide

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

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peptide

<400> 145
Ala Ile His Gly Lys Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 146
<211> 14
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peptide

<400> 146
Ala Ile His Gly Asp Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

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peptide

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Ala Ile His Gly Val Ser Thr Leu Tyr Ala Asp Ser Val Lys

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<210> 148

<211> 14

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peptide

<400> 148

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

<210> 149

<211> 14

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peptide

<400> 149

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

<210> 150

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peptide

<400> 150

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

<210> 151

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peptide

<400> 151
Ala Ile His Gly Ser Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

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peptide

<400> 152
Ala Ile His Gly Asp Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 153
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peptide

<400> 153
Ala Ile His Gly Thr Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 154
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peptide

<400> 154
Ala Ile His Gly Thr Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 155
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peptide

<400> 155

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

<210> 156

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peptide

<400> 156

Ala Ile His Gly Gln Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 157

<211> 14

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<213> Artificial Sequence

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peptide

<400> 157

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

<210> 158

<211> 14

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peptide

<400> 158

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

<210> 159

<211> 14

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<213> Artificial Sequence

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<400> 159

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

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<400> 160

Ala Ile His Gly Asn Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 161

<211> 14

<212> PRT

<213> Artificial Sequence

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<400> 161

Ala Ile His Gly Phe Gln Thr Leu Tyr Ala Asp Ser Val Lys
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<210> 162

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<400> 162

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

<210> 163

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Ala	Ile	His	Gly	Phe	Ser	Thr	Ile	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 164

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<400> 164

Ala	Ile	His	Gly	Pro	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 165

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<400> 165

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

<210> 166

<211> 14

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<400> 166

Ala	Ile	His	Gly	Glu	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
1				5					10				

<210> 167

<211> 14
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<400> 167

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

<210> 168

<211> 14

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<400> 168

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

<210> 169

<211> 14

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<400> 169

Ala	Ile	His	Gly	Asn	Ser	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
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<210> 170

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<400> 170

Ala	Ile	His	Gly	Phe	Glu	Thr	Leu	Tyr	Ala	Asp	Ser	Val	Lys
1				5					10				

<210> 171
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peptide

<400> 171
Ala Ile His Gly Phe Glu Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 172
<211> 14
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peptide

<400> 172
Ala Ile His Gly Phe Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10

<210> 173
<211> 14
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peptide

<400> 173
Ala Ile His Gly Leu Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 174
<211> 14
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peptide

<400> 174
Ala Ile His Gly Ala Ser Thr Leu Tyr Ala Asp Ser Val Lys

1

5

10

<210> 175

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peptide

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Ala Ile His Gly Gln Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 176

<211> 14

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peptide

<400> 176

Ala Ile His Gly Gln Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 177

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peptide

<400> 177

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

<210> 178

<211> 14

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peptide

<400> 178

Ala Ile His Gly Phe Glu Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 179

<211> 14

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 179

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

<210> 180

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 180

Ala Ile His Gly Asn Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 181

<211> 14

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peptide

<400> 181

Ala Ile His Gly Glu Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 182

<211> 14

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<223> Description of Artificial Sequence: Synthetic

peptide

<400> 182

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

<210> 183

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 183

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

<210> 184

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 184

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

<210> 185

<211> 14

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peptide

<400> 185

Ala Ile His Gly Asn Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 186

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 186

Ala Ile His Gly Glu Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 187

<211> 14

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 187

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

<210> 188

<211> 14

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 188

Ala Ile His Gly Arg Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10

<210> 189

<211> 14

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 189

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

<210> 190

<211> 14

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 190

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

<210> 191

<211> 14

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<400> 191

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

<210> 192

<211> 14

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<400> 192

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

<210> 193

<211> 14

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<213> Artificial Sequence

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<400> 193

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

<210> 194

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1 5 10

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Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val His

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Val Pro Trp Gly Tyr Tyr His Pro Arg Asn Val Tyr

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<210> 259

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peptide

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Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Arg
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<210> 261

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<213> Artificial Sequence

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peptide

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<210> 262

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peptide

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<210> 263

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peptide

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peptide

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Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr
1 5 10

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Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
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Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
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Val Pro Trp Gly Lys Tyr His Pro Arg Asn Val Tyr
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Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr
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Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Gln
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<210> 271

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Val	Pro	Trp	Gly	Arg	Tyr	His	Pro	Arg	Asn	Val	Tyr
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<210> 274

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Val	Pro	Trp	Gly	Arg	Tyr	His	Pro	Arg	Asn	Val	Tyr
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Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Gly	Asn	Val	Tyr
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Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Thr	Asn	Val	Tyr
1				5					10		

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Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr
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1 5 10

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<210> 283

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Val Pro Trp Gly Asp Tyr His Pro Arg Met Val Tyr

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Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Leu

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<210> 285

<211> 12

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 285

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr

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<400> 286

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr
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peptide

<400> 287

Val Pro Trp Gly Ala Tyr His Pro Arg Asn Val Tyr
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peptide

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peptide

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Val Pro Trp Gly Asp Tyr His Pro Gln Asn Val Tyr
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peptide

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Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr
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Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 296

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 297

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 297

Val Pro Trp Gly Asp Tyr His Pro Ser Asn Val Tyr
1 5 10

<210> 298

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 298

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Gly	Asn	Val	Tyr
1				5					10		

<210> 299

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 299

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Glu	Val	Tyr
1				5					10		

<210> 300

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 300

Val	Pro	Trp	Gly	Arg	Tyr	His	Pro	Gly	Asn	Val	Tyr
1				5					10		

<210> 301

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 301

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Val	Val	Tyr
1				5					10		

<210> 302

<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 302

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Met
1 5 10

<210> 303

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 303

Val Pro Trp Gly Asp Tyr His Pro Leu Asn Val Tyr
1 5 10

<210> 304

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 304

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 305

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 305

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 306
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 306
Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr
1 5 10

<210> 307
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 307
Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ser
1 5 10

<210> 308
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 308
Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr
1 5 10

<210> 309
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 309
Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr

1

5

10

<210> 310

<211> 12

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 310

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 311

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 311

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr
1 5 10

<210> 312

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 312

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 313

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 313

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr
1 5 10

<210> 314

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 314

Val Pro Trp Gly Asp Tyr His Pro Asn Asn Val Tyr
1 5 10

<210> 315

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 315

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 316

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 316

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr
1 5 10

<210> 317

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

peptide

<400> 317

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 318

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 318

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 319

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 319

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala
1 5 10

<210> 320

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 320

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 321

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 321

Val Pro Trp Gly Asp Tyr His Pro Lys Asn Val Tyr
1 5 10

<210> 322

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 322

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 323

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 323

Val Pro Trp Gly Lys Tyr His Pro Arg Asn Val Tyr
1 5 10

<210> 324

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 324

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr
1 5 10

<210> 325

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 325

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Gly	Asn	Val	Tyr
1				5					10		

<210> 326

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 326

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Gln
1				5					10		

<210> 327

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 327

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Gly	Asn	Val	Tyr
1				5					10		

<210> 328

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 328

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Ser
1				5					10		

<210> 329

<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 329

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 330

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 330

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 331

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 331

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 332

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 332

Val Pro Trp Gly Asp Tyr His Pro Arg Asp Val Tyr
1 5 10

<210> 333
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 333
Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr
1 5 10

<210> 334
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 334
Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala
1 5 10

<210> 335
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 335
Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr
1 5 10

<210> 336
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 336
Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr

1

5

10

<210> 337

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 337

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr
1 5 10

<210> 338

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 338

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Val
1 5 10

<210> 339

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 339

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Val
1 5 10

<210> 340

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 340

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 341

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 341

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr
1 5 10

<210> 342

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 342

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 343

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 343

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 344

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

peptide

<400> 344

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 345

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 345

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr
1 5 10

<210> 346

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 346

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 347

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 347

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asp Ile Phe Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 348

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 348

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Asp Phe Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 349

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 349

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Val Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 350

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 350

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Asp Phe Ser Ile Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

65		70		75		80									
Met	Asn	Ser	Leu	Arg	Pro	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys	Asn	Lys
				85					90					95	

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Lys	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
						115

<210> 351
 <211> 119
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400>	351														
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
1				5					10					15	

Ser	Leu	Thr	Leu	Ser	Cys	Ala	Ala	Ser	Thr	Asn	Gln	Phe	Ser	Ile	Ser
			20					25					30		

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

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

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

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

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Val	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
-----	-----	-----	-----	-----	-----	-----

115

<210> 352

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 352

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ser Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val His Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 353

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 353

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ser Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 354

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 354

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Thr Ser
20 25 30

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

Ala Ala Ile His Gly Phe Gln Thr Leu Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Val Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 355

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 355

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Leu Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 356

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 356

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Glu Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 357

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 357

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Asp Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 358

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 358

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Asn Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val His Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 359

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 359

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Asn Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

65		70		75		80									
Met	Asn	Ser	Leu	Arg	Pro	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys	Asn	Lys
				85					90					95	

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Met	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
						115

<210> 360
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400>	360														
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
1				5					10					15	

Ser	Leu	Thr	Leu	Ser	Cys	Ala	Ala	Ser	Thr	Asn	Ile	Phe	Ser	Asn	Ser
			20					25					30		

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

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

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

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

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Thr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
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115

<210> 361

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 361

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Asn Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Arg Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 362

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 362

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 363

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 363

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 364

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 364

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ser Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 365

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 365

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ser Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Lys Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 366

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 366

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Ile Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 367

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 367

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Glu Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Thr Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 368

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 368

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Val Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

115

<210> 370

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 370

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Glu Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 371

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 371

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Asp Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 372

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 372

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Lys Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 373

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 373

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser His Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 374

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 374

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Thr Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 375

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 375

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Thr Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Gln Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 376

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 376

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Leu Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 377

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 377

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

115

<210> 379

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 379

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ala Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Asn Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 380

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 380

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ala Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 381

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 381

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 382

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 382

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 383

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 383

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 384

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 384

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ala Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 385

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 385

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ala Ser Ile Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 386

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 386

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ala Ser Ile Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

115

<210> 388

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 388

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Met Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 389

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 389

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 390

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 390

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 391

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 391

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 392

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 392

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Asn Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 393

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 393

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ile Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 394

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 394

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Thr

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 395

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 395

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

65		70		75		80									
Met	Asn	Ser	Leu	Arg	Pro	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys	Asn	Lys
			85						90					95	

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Gly	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
						115

<210> 396
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400>	396														
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
1			5						10					15	

Ser	Leu	Thr	Leu	Ser	Cys	Ala	Ala	Ser	Thr	Asn	Ile	Gln	Ser	Ile	Ser
			20					25					30		

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

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

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

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

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Gly	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
-----	-----	-----	-----	-----	-----	-----

115

<210> 397

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 397

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Ser Asp Phe Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 398

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 398

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

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

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

Ala Ala Ile His Gly Phe Gln Thr Leu Tyr Ala Asp Ser Val Lys Gly
50 55 60

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 399

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 399

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Met Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 400

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 400

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 401

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 401

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ser Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 402

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 402

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ser Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 403

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 403

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Asn Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 404

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 404

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Thr Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

65		70		75		80									
Met	Asn	Ser	Leu	Arg	Pro	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys	Asn	Lys
			85						90					95	

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Gly	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
						115

<210> 405
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400>	405														
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
1			5						10					15	

Ser	Leu	Thr	Leu	Ser	Cys	Ala	Ala	Ser	Thr	Asn	Ile	Phe	Ser	Thr	Ser
			20					25					30		

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

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

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

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

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Leu	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
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115

<210> 406

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 406

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

Ser Leu Thr Leu Ser Cys Val Ala Ser Thr Asn Ile Phe Ser Thr Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 407

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 407

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Asp Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 408

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 408

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Gln Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Cys Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 409

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 409

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Gln Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Ser Asn Val Tyr Trp Gly Lys Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 410

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 410

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 411

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 411

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 412

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 412

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Arg Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 413

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 413

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Gly Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

115

<210> 415

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 415

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Tyr
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Lys Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 416

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 416

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 417

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 417

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Lys Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 418

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 418

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Glu Phe Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Ala Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 419

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 419

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Glu Phe Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 420

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 420

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Pro Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 421

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 421

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Pro Ser Ile Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ala Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 422

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 422

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Pro Ser Ile Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

65		70		75		80									
Met	Asn	Ser	Leu	Arg	Pro	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys	Asn	Lys
				85					90					95	

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
						115

<210> 423
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400>	423														
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
1				5					10					15	

Ser	Leu	Thr	Leu	Ser	Cys	Ala	Ala	Ser	Thr	Asn	Ile	Pro	Ser	Ile	Ser
			20					25					30		

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

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

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

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

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
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115

<210> 424

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 424

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Gln Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 425

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 425

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Pro Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Gln Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 426

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 426

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ser Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 427

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 427

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Ser Asn Ile Phe Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 428

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 428

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 429

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 429

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 430

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 430

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Arg Ser Ile Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Val Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 431

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 431

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Thr Ser Ile Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

65		70		75		80									
Met	Asn	Ser	Leu	Arg	Pro	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys	Asn	Glu
				85					90					95	

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
						115

<210> 432
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400>	432														
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
1				5					10					15	

Ser	Leu	Thr	Leu	Ser	Cys	Ala	Ala	Ser	Thr	Asn	Ile	Thr	Ser	Ile	Ser
			20					25					30		

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

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

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

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

Val	Pro	Trp	Gly	Asp	Tyr	His	Pro	Arg	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
-----	-----	-----	-----	-----	-----	-----

115

<210> 433

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 433

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Thr Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 434

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 434

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gln Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 435

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 435

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Arg Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 436

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 436

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Arg Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 437

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 437

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

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

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Met Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 438

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 438

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Met Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 439

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 439

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Arg Ile Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 440

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 440

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

<210> 442

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 442

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
 20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 443

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 443

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Glu Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 444

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 444

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Tyr Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 445

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 445

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 446

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 446

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 447

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 447

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Arg
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 448

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 448

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Tyr

20

25

30

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

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

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

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

Val Pro Trp Gly Ser Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 449

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 449

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Asn Ile Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

65		70		75		80									
Met	Asn	Ser	Leu	Arg	Pro	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys	Asn	Lys
				85					90					95	

Val	Pro	Trp	Gly	Arg	Tyr	His	Pro	Arg	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
						115

<210> 450
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400>	450														
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
1				5					10					15	

Ser	Leu	Thr	Leu	Ser	Cys	Ala	Ala	Ser	Thr	Asn	Ile	Phe	Ser	Ser	Ser
			20					25					30		

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

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

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

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

Val	Pro	Trp	Gly	Arg	Tyr	His	Pro	Arg	Asn	Val	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Gln	Val	Thr	Val	Ser	Ser
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115

<210> 451

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 451

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Ser Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 452

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 452

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Asn
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Ser Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 453

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 453

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Thr
20 25 30

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

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

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

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

Val Pro Trp Gly Ser Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 454

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 454

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Thr
20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 455

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 455

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Thr
20 25 30

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

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

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

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

Val Pro Trp Gly Arg Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 456

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 456

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Thr
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asp Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 457

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 457

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Thr Ser

20

25

30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 458

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 458

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Thr Ser
 20 25 30

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu Gln

115

<210> 460

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 460

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Thr
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Gly Asn Val Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 461

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 461

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser
20 25

<210> 462

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 462

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

Ser Leu Thr Leu Ser Cys Val Ala Ser
20 25

<210> 463

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 463

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

<210> 464

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 464

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu
1 5 10 15

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn
20 25 30

Lys

<210> 465
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 465
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ile Tyr Leu
1 5 10 15

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Asn
20 25 30

Glu

<210> 466
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 466
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 467
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 467

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

<210> 468

<211> 184

<212> PRT

<213> Homo sapiens

<400> 468

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 Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
50 55 60

Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
65 70 75 80

Asn Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
85 90 95

Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
100 105 110

Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
115 120 125

Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe
130 135 140

Pro Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys
145 150 155 160

Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu
165 170 175

Ile Glu Lys Ser Ile Ser Ala Arg
180

<210> 469

<211> 185

<212> PRT

<213> Mus sp.

<400> 469

Met Ala Gln Gln Cys Phe His Ser Glu Tyr Phe Asp Ser Leu Leu His
1 5 10 15

Ala Cys Lys Pro Cys His Leu Arg Cys Ser Asn Pro Pro Ala Thr Cys
20 25 30

Gln Pro Tyr Cys Asp Pro Ser Val Thr Ser Ser Val Lys Gly Thr Tyr
35 40 45

Thr Val Leu Trp Ile Phe Leu Gly Leu Thr Leu Val Leu Ser Leu Ala
50 55 60

Leu Phe Thr Ile Ser Phe Leu Leu Arg Lys Met Asn Pro Glu Ala Leu
65 70 75 80

Lys Asp Glu Pro Gln Ser Pro Gly Gln Leu Asp Gly Ser Ala Gln Leu
85 90 95

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

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

Asp Cys Val Lys Ser Lys Pro Lys Gly Asp Ser Asp His Phe Phe Pro
130 135 140

Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys Thr
145 150 155 160

Gly Asp Tyr Gly Lys Ser Ser Val Pro Thr Ala Leu Gln Ser Val Met
165 170 175

Gly Met Glu Lys Pro Thr His Thr Arg
180 185

<210> 470

<211> 183

<212> PRT

<213> Macaca fascicularis

<400> 470

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 Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu Ile
50 55 60

Ile Ser Leu Ala Val Phe Val Leu Thr Phe Leu Leu Arg Lys Met Ser
65 70 75 80

Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu Leu
85 90 95

Gly Met Ala Asn Ile Asp Leu Glu Lys Gly Arg Thr Gly Asp Glu Ile
100 105 110

Val Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys Glu
115 120 125

Asp Cys Ile Lys Asn Lys Pro Lys Val Asp Ser Asp His Cys Phe Pro
130 135 140

Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys Thr
145 150 155 160

Asn Asp Tyr Cys Asn Ser Leu Ser Ala Ala Leu Ser Val Thr Glu Ile
165 170 175

Glu Lys Ser Ile Ser Ala Arg
180

<210> 471

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
6xHis tag

<400> 471

His His His His His His
1 5

<210> 472

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 472

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Thr Asn Ile Phe Ser Ile Ser
20 25 30

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

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

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

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

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr Trp Gly Gln Gly

100

105

110

Thr Gln Val Thr Val Ser Ser
115

<210> 473

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 473

Thr Asn Ile Phe Ser Ile Ser Pro Met Gly
1 5 10

<210> 474

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 474

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

<210> 475

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 475

Val Pro Trp Gly Asp Tyr His Pro Arg Asn Val Tyr
1 5 10