SEQUENCE LISTING

<110> EISAI R&D MANAGEMENT CO., LTD.

<120> COMPOSITIONS AND METHODS FOR TREATING INFLAMMATORY DISORDERS

<130> 09056-C9338

<150> 61/256,521
<151> 2009-10-30

<160> 135

<170> PatentIn version 3.5

<210> 1
<211> 397
<212> PRT
<213> Homo sapiens

<400> 1

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1 5 10 15

His Leu Thr Val Leu Leu Ala Gly Gln His His Gly Val Thr Lys Cys
20 25 30

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

Ile His Tyr Gln Gln Asn Gln Ala Ser Cys Gly Lys Arg Ala Ile Ile
50 55 60

Leu Glu Thr Arg Gln His Arg Leu Phe Cys Ala Asp Pro Lys Glu Gln
65 70 75 80

Trp Val Lys Asp Ala Met Gln His Leu Asp Arg Gln Ala Ala Ala Leu
85 90 95

Thr Arg Asn Gly Gly Thr Phe Glu Lys Gln Ile Gly Glu Val Lys Pro
100 105 110

Arg Thr Thr Pro Ala Ala Gly Gly Met Asp Glu Ser Val Val Leu Glu
115 120 125

Pro Glu Ala Thr Gly Glu Ser Ser Ser Leu Glu Pro Thr Pro Ser Ser
130 135 140

Gln Glu Ala Gln Arg Ala Leu Gly Thr Ser Pro Glu Leu Pro Thr Gly
145 150 155 160

Val Thr Gly Ser Ser Gly Thr Arg Leu Pro Pro Thr Pro Lys Ala Gln
165 170 175

Asp Gly Gly Pro Val Gly Thr Glu Leu Phe Arg Val Pro Pro Val Ser
180 185 190

Thr Ala Ala Thr Trp Gln Ser Ser Ala Pro His Gln Pro Gly Pro Ser
195 200 205

Leu Trp Ala Glu Ala Lys Thr Ser Glu Ala Pro Ser Thr Gln Asp Pro
210 215 220

Ser Thr Gln Ala Ser Thr Ala Ser Ser Pro Ala Pro Glu Glu Asn Ala
225 230 235 240

Pro Ser Glu Gly Gln Arg Val Trp Gly Gln Gly Gln Ser Pro Arg Pro
245 250 255

Glu Asn Ser Leu Glu Arg Glu Glu Met Gly Pro Val Pro Ala His Thr
260 265 270

Asp Ala Phe Gln Asp Trp Gly Pro Gly Ser Met Ala His Val Ser Val
275 280 285

Val Pro Val Ser Ser Glu Gly Thr Pro Ser Arg Glu Pro Val Ala Ser
290 295 300

Gly Ser Trp Thr Pro Lys Ala Glu Glu Pro Ile His Ala Thr Met Asp
305 310 315 320

Pro Gln Arg Leu Gly Val Leu Ile Thr Pro Val Pro Asp Ala Gln Ala
325 330 335

Ala Thr Arg Arg Gln Ala Val Gly Leu Leu Ala Phe Leu Gly Leu Leu
340 345 350

Phe Cys Leu Gly Val Ala Met Phe Thr Tyr Gln Ser Leu Gln Gly Cys
355 360 365

Pro Arg Lys Met Ala Gly Glu Met Ala Glu Gly Leu Arg Tyr Ile Pro
370 375 380

Arg Ser Cys Gly Ser Asn Ser Tyr Val Leu Val Pro Val
385 390 395

<210> 2
<211> 35
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<220>
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<210> 3

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

<220>
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<400> 3
gcgggcggcc gccctccggg tggcagcctg gg 32

<210> 4
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
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<400> 4
gcgctcgagg ccaccatggc tccgatatct ctgtcgtgg 39

<210> 5
<211> 36
<212> DNA
<213> Artificial Sequence

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

<400> 5
cgcggcggcc gcggtggcag cctgggagtc agggac 36

<210> 6
<211> 29
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 6
gggatggrat gsagctgkgt matsctctt 29

<210> 7
<211> 29
<212> DNA
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<220>
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<400> 7
gggatgract tcgggytgag ctkggtttt 29

<210> 8
<211> 28
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<213> Artificial Sequence

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<400> 8
gggatggctg tcttggggct gctcttct 28

<210> 9
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<400> 9
tcatttaccc ggagtccggg agaagctctt agtc 34

<210> 10
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<223> Description of Artificial Sequence: Synthetic primer

<400> 10
gggatggaga cagacacact cctgctat 28

<210> 11
<211> 29
<212> DNA
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<223> Description of Artificial Sequence: Synthetic primer

<400> 11
gggatggatt ttcaggtgca gattttcag 29

<210> 12
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<220>
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<400> 12
gggatgragt cacakacyca ggtcttyrta 30

<210> 13
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<400> 13
gggatgaggk ccccwgctca gytyctkggr 30

<210> 14
<211> 27
<212> DNA
<213> Artificial Sequence

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

<400> 14
gggatgaagt tggctgttag gctgttg 27

<210> 15
<211> 25
<212> DNA
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<400> 15
ctaacactca ttcctgttga agctc 25

<210> 16
<211> 12
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 16
acatcactcc gt 12

<210> 17
<211> 50
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

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acggagtgat gtccgtcgac gtatctctgc gttgatactt cagcgtagct 50

<210> 18

<211> 26
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 18
gtatcaacgc agagatacgt cgacgg 26

<210> 19
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 19
agctacgctg aagtatcaac gcagag 26

<210> 20
<211> 24
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<220>
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<400> 20
gtacggagta ctccaaaaat gttg 24

<210> 21
<211> 24
<212> DNA
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<220>
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<400> 21
tcttcaggct gcaggctgat gatc 24

<210> 22
<211> 24
<212> DNA
<213> Artificial Sequence

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

<400> 22
aaatcttcag gctgcaggct gttg 24

<210> 23
<211> 25
<212> DNA
<213> Artificial Sequence

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

<400> 23
ctgttgatct tgagagaata ttgtg 25

<210> 24
<211> 357
<212> DNA
<213> Artificial Sequence

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

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tcctgcaagg cttctggcta caccttcaca aactactata tacactgggt gaagcagagg 120

cctggacagg gacttgagtg gattggatgg atttatcctg gagatggtag tcctaagttc 180

aatgagaggt tcaagggcaa gaccacactg actgcagaca agtcctcaaa cacagcctac 240

atgttgctca gcagcctgac ctctgaagac tctgcgatct atttctgtgc aactgggccc 300

actgatggcg actactttga ctactggggc cagggcacca ctctcacagt ctcctca 357

<210> 25
<211> 321
<212> DNA
<213> Artificial Sequence

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

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atcacatgtc gagcaagcgg gaatattcac aattttttag catggtatca gcagaaacag 120

ggaaaatctc ctcagttcct ggtctataat gaaaaaacct tagcagatgg tgtgccatca 180

aggttcagtg gcagtggatc aggaacacaa tattctctca agatcaacag cctgcagcct 240

gaagattttg ggatttattt ctgtcaacag ttttggagta ctccgtatac gttcggaggg 300

gggaccaagc tggaaataaa a 321

<210> 26
<211> 119
<212> PRT
<213> Artificial Sequence

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

<400> 26

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

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

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

Gly Trp Ile Tyr Pro Gly Asp Gly Ser Pro Lys Phe Asn Glu Arg Phe
50 55 60

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

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

Ala Thr Gly Pro Thr Asp Gly Asp Tyr Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Leu Thr Val Ser Ser
115

<210> 27
<211> 107
<212> PRT
<213> Artificial Sequence

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

<400> 27

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

Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Phe
20 25 30

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

Tyr Asn Glu Lys Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly

50 55 60

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

Glu Asp Phe Gly Ile Tyr Phe Cys Gln Gln Phe Trp Ser Thr Pro Tyr
85 90 95

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

<210> 28
<211> 5
<212> PRT
<213> Artificial Sequence

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

<400> 28

Asn Tyr Tyr Ile His
1 5

<210> 29
<211> 17
<212> PRT
<213> Artificial Sequence

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

<400> 29

Trp Ile Tyr Pro Gly Asp Gly Ser Pro Lys Phe Asn Glu Arg Phe Lys
1 5 10 15

Gly

<210> 30
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 30

Gly Pro Thr Asp Gly Asp Tyr Phe Asp Tyr
1 5 10

<210> 31
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 31

Arg Ala Ser Gly Asn Ile His Asn Phe Leu Ala
1 5 10

<210> 32
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 32

Asn Glu Lys Thr Leu Ala Asp
1 5

<210> 33

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

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

<400> 33

Gln Gln Phe Trp Ser Thr Pro Tyr Thr
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<210> 34
<211> 119
<212> PRT
<213> Homo sapiens

<400> 34

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

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

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

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

Gln Gly Arg Val Thr Met Thr Ser Asp Thr Ser Ile Asn Thr Val Tyr
65 70 75 80

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

Ala Thr Thr Arg Thr Ala Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly

100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 35
<211> 107
<212> PRT
<213> Homo sapiens

<400> 35

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

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

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

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

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

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

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

<210> 36
<211> 119
<212> PRT

<213> Artificial Sequence

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

<400> 36

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

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

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

Gly Trp Ile Tyr Pro Gly Asp Gly Ser Pro Lys Phe Asn Glu Arg Phe
50 55 60

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

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

Ala Thr Gly Pro Thr Asp Gly Asp Tyr Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 37
<211> 119
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 37

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

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

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

Gly Trp Ile Tyr Pro Gly Asp Gly Ser Pro Lys Phe Asn Glu Arg Phe
    50                  55                  60

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

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

Ala Thr Gly Pro Thr Asp Gly Asp Tyr Phe Asp Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Thr Val Thr Val Ser Ser
        115
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<210> 38
<211> 107
<212> PRT
<213> Artificial Sequence

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

<400> 38

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

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

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

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

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100                 105
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<210> 39
<211> 119
<212> PRT
<213> Artificial Sequence

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

<400> 39

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
            20                  25                  30
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Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Trp Ile Tyr Pro Gly Asp Gly Ser Pro Lys Phe Asn Glu Arg Phe
50 55 60

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

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

Ala Thr Gly Pro Thr Asp Gly Asp Tyr Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 40
<211> 119
<212> PRT
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<220>
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<223> Any amino acid

<220>
<221> MOD_RES
<222> (50)..(66)
<223> Any amino acid

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<221> MOD_RES
<222> (99)..(108)
<223> Any amino acid

<400> 40

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

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

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

Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 41
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

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<222> (24)..(34)
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<221> MOD_RES
<222> (89)..(97)
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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

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

Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Phe Gly Gly Gly Thr Lys Val Glu Ile Lys

100 105

<210> 42
<211> 119
<212> PRT
<213> Artificial Sequence

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

<400> 42

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

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

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

Gly Trp Ile Tyr Pro Gly Asp Gly Ser Pro Lys Phe Asn Glu Arg Phe
50 55 60

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

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

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

Thr Thr Val Thr Val Ser Ser
115

<210> 43
<211> 119
<212> PRT
<213> Artificial Sequence

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

<400> 43

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

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

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

Gly Trp Ile Tyr Pro Gly Asp Gly Ser Pro Lys Phe Asn Glu Arg Phe
50 55 60

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

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

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

Thr Thr Val Thr Val Ser Ser
115

<210> 44
<211> 107
<212> PRT

<213> Artificial Sequence

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

<400> 44

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

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

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

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

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

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

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

<210> 45
<211> 107
<212> PRT
<213> Artificial Sequence

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

<400> 45

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

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

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

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

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100                 105
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<210> 46
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 46

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1               5                  10                  15

Ala His Ser
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<210> 47
<211> 57
<212> DNA
<213> Artificial Sequence

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

<400> 47
atggactgga cctggagcat ccttttcttg gtggcagcac caacaggtgc ccactcc 57

<210> 48
<211> 57
<212> DNA
<213> Artificial Sequence

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

<400> 48
atggactgga catggtccat cctgttcctg gtggccgctc caactggcgc acactct 57

<210> 49
<211> 22
<212> PRT
<213> Artificial Sequence

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

<400> 49

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

Leu Arg Gly Ala Arg Cys
20

<210> 50
<211> 66

<212> DNA
<213> Artificial Sequence

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

<400> 50
atggacatga gggtccccgc tcagctcctg gggctcctgc tactctggct ccgaggtgcc 60

agatgt 66

<210> 51
<211> 50
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

<400> 51
atggactgga cctggagcat ccttttcttg gtggcagcac caacaggtgc 50

<210> 52
<211> 50
<212> DNA
<213> Artificial Sequence

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

<400> 52
ccagactgca ccagctgcac ctgggagtgg gcacctgttg gtgctgccac 50

<210> 53
<211> 50
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 53

gtgcagctgg tgcagtctgg ggctgaggtg aagaagcctg gggcctcagt 50

<210> 54
<211> 50
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 54
gtgtatccag aagccttgca ggagaccttc actgaggccc caggcttctt 50

<210> 55
<211> 50
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 55
tgcaaggctt ctggatacac cttcaccaac tactatatac actgggtgaa 50

<210> 56
<211> 50
<212> DNA
<213> Artificial Sequence

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

<400> 56
atccactcaa gccottgtcc aggggcctgc ttcacccagt gtatatagta 50

<210> 57
<211> 50
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 57
ggacaagggc ttgagtggat aggatggatt tatcctggag atggtagtcc 50

<210> 58
<211> 50
<212> DNA
<213> Artificial Sequence

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

<400> 58
gtcctgccct tgaacctctc attgaactta ggactaccat ctccaggata 50

<210> 59
<211> 50
<212> DNA
<213> Artificial Sequence

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

<400> 59
gagaggttca agggcaggac caccctgacc gcagacaagt ccacgaacac 50

<210> 60
<211> 50
<212> DNA
<213> Artificial Sequence

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

<400> 60
gatctcaggc tgctcagcaa catgtaggct gtgttcgtgg acttgtctgc 50

<210> 61
<211> 50
<212> DNA

<213> Artificial Sequence

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

<400> 61
ttgctgagca gcctgagatc tgacgacacg gccgtgtatt tctgtgcgac 50

<210> 62
<211> 50
<212> DNA
<213> Artificial Sequence

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

<400> 62
tagtcaaagt agtcgccatc agtgggccct gtcgcacaga aatacacggc 50

<210> 63
<211> 50
<212> DNA
<213> Artificial Sequence

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

<400> 63
gatggcgact actttgacta ctggggccaa gggaccacgg tcaccgtctc 50

<210> 64
<211> 48
<212> DNA
<213> Artificial Sequence

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

<400> 64
gaccgatggg cccttggtgg aggctgaaga gacggtgacc gtggtccc 48

<210> 65
<211> 70
<212> DNA
<213> Artificial Sequence

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

<400> 65
gccaccatgg acatgagggt ccccgctcag ctcctggggc tcctgctact ctggctccga 60

ggtgccagat 70

<210> 66
<211> 70
<212> DNA
<213> Artificial Sequence

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

<400> 66
tcctacagat gcagacaggg aggatggaga ctgggtcatc tggatgtcac atctggcacc 60

tcggagccag 70

<210> 67
<211> 70
<212> DNA
<213> Artificial Sequence

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

<400> 67
ccctgtctgc atctgtagga gacagagtca ccatcacttg ccgagcaagc gggaatattc 60

acaatttttt 70

<210> 68
<211> 70
<212> DNA

<213> Artificial Sequence

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

<400> 68
gaacttaggg gctttccctg gtttctgttg ataccatgct aaaaaattgt gaatattccc 60

gcttgctcgg 70

<210> 69
<211> 70
<212> DNA
<213> Artificial Sequence

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

<400> 69
cagggaaagc ccctaagttc ctggtctata atgaaaaaac cttagcagat ggggtcccat 60

caaggttcag 70

<210> 70
<211> 70
<212> DNA
<213> Artificial Sequence

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

<400> 70
gttgcagact gctgatggtg agagtatatt gtgtcccaga tccactgcca ctgaaccttg 60

atgggacccc 70

<210> 71
<211> 70
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 71
caccatcagc agtctgcaac ctgaagattt tgcgacctac ttctgtcaac agttttggag 60

tactccgtat 70

<210> 72
<211> 63
<212> DNA
<213> Artificial Sequence

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

<400> 72
tttgatctcc accttggtcc ctccgccgaa cgtatacgga gtactccaaa actgttgaca 60

gaa 63

<210> 73
<211> 48
<212> DNA
<213> Artificial Sequence

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

<400> 73
gacagatggt gcagccacag ttcgtttgat ctccaccttg gtccctcc 48

<210> 74
<211> 50
<212> DNA
<213> Artificial Sequence

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

<400> 74
gcgaattcgt cgacgccacc atggactgga cctggagcat cctttcttg 50

<210> 75
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 75
cgcgctagct gaagagacgg tgaccgtggt ccc 33

<210> 76
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 76
gcggtcgacg ccaccatgga catgagggtc ccc 33

<210> 77
<211> 48
<212> DNA
<213> Artificial Sequence

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

<400> 77
gacagatggt gcagccacag ttcgtttgat ctccaccttg gtccctcc 48

<210> 78
<211> 438
<212> DNA
<213> Artificial Sequence

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

<400> 78
gaattcgtcg acgccaccat ggactggaca tggtccatcc tgttcctggt ggccgctcca 60

actggcgcac actctcaggt gcagctggtg cagagtggcg ctgaggtgaa gaaacccgga 120

gcatcagtga aggtgtcctg caaagccagc ggatacacct tcaccaacta ctatattcat 180

tgggtgaggc aggctcctgg acagggactg gagtggatcg gatggatcta cccaggggac 240

ggttccccta agttcaacga aaggtttaaa ggccggacca cactgaccag ggataagtca 300

accaatacag cttacatgga actgtccagc ctgcgctctg acgatacagc agtgtatttc 360

tgtgccactg ggccaaccga cggcgactac tttgattatt ggggccaggg aactaccgtg 420

accgtgtcta gtgctagc 438

<210> 79
<211> 39
<212> DNA
<213> Artificial Sequence

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

<400> 79
cgcgtcgacg ccaccatgga ctggacatgg tccatcctg 39

<210> 80
<211> 39
<212> DNA
<213> Artificial Sequence

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

<400> 80
atgaccgccg atacctcaac ctccacagct tacatggaa 39

<210> 81
<211> 30
<212> DNA

<213> Artificial Sequence

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

<400> 81
ggttgaggta tcggcggtca ttgtggtccg 30

<210> 82
<211> 39
<212> DNA
<213> Artificial Sequence

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

<400> 82
gaggatacag cagtgtattt ctgtgcccgg gggccaacc 39

<210> 83
<211> 36
<212> DNA
<213> Artificial Sequence

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

<400> 83
ggcacagaaa tacactgctg tatcctcaga gcgcag 36

<210> 84
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 84
cgcgctagca ctagacacgg tcacggtagt tcc 33

<210> 85
<211> 39
<212> DNA
<213> Artificial Sequence

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

<400> 85
cgcgtcgacg ccaccatgga ctggacatgg tccatcctg 39

<210> 86
<211> 43
<212> DNA
<213> Artificial Sequence

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

<400> 86
ttgacttatc ggcggtcagt gtggtccggc ctttaaacct ttc 43

<210> 87
<211> 42
<212> DNA
<213> Artificial Sequence

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

<400> 87
acactgaccg ccgataagtc aacctccaca gcttacatgg aa 42

<210> 88
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 88

cgcgctagca ctagacacgg tcacggtagt tcc 33

<210> 89
<211> 39
<212> DNA
<213> Artificial Sequence

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

<400> 89
cgcgtcgacg ccaccatgga catgagggtc cccgctcag 39

<210> 90
<211> 30
<212> DNA
<213> Artificial Sequence

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

<400> 90
cagcagctta ggggctttcc ctggtttctg 30

<210> 91
<211> 36
<212> DNA
<213> Artificial Sequence

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

<400> 91
gggaaagccc ctaagctgct gatctataat gaaaaa 36

<210> 92
<211> 30
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 92
tgtcccagat ccactgccac tgaaccttga 30

<210> 93
<211> 36
<212> DNA
<213> Artificial Sequence

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

<400> 93
agtggcagtg gatctgggac agactatact ctcacc 36

<210> 94
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 94
cgccgtacgt ttgatctcca ccttggtccc tcc 33

<210> 95
<211> 39
<212> DNA
<213> Artificial Sequence

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

<400> 95
cgcgtcgacg ccaccatgga catgagggtc cccgctcag 39

<210> 96
<211> 40
<212> DNA

<213> Artificial Sequence

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

<400> 96
ggtgagagta tactgtgtcc cagatccact gccactgaac 40

<210> 97
<211> 39
<212> DNA
<213> Artificial Sequence

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

<400> 97
ggatctggga cacagtatac tctcaccatc agcagtctg 39

<210> 98
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 98
cgccgtacgt ttgatctcca ccttggtccc tcc 33

<210> 99
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 99
cgcgctagca ccaagggccc atcggtcttc ccc 33

<210> 100
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 100
cgcgatatct catttacccg gagacaggga gag 33

<210> 101
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 101
cgccgtacgg tggctgcacc atctgtcttc atc 33

<210> 102
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 102
cgcgatatcc taacactctc ccctgttgaa gct 33

<210> 103
<211> 24
<212> DNA
<213> Artificial Sequence

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

<400> 103

cgaactgtgg ctgcaccatc tgtc 24

<210> 104
<211> 38
<212> DNA
<213> Artificial Sequence

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

<400> 104
cgcgcggccg cctaacactc tcccctgttg aagctctt 38

<210> 105
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 105
ttgctgagca gcctgagatc tgaggacacg gcc 33

<210> 106
<211> 30
<212> DNA
<213> Artificial Sequence

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

<400> 106
agatctcagg ctgctcagca acatgtaggc 30

<210> 107
<211> 39
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 107
gcggaattcg tcgacgccac catgcgatgg agctggatc 39

<210> 108
<211> 48
<212> DNA
<213> Artificial Sequence

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

<400> 108
gaccgatggg cccttggtgg aggctgagga gactgtgaga gtggtgcc 48

<210> 109
<211> 41
<212> DNA
<213> Artificial Sequence

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

<400> 109
gcctccacca agggcccatc ggtcttcccc ctggcgccct g 41

<210> 110
<211> 35
<212> DNA
<213> Artificial Sequence

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

<400> 110
cgcgcggccg ctcatttacc cggagacagg gagag 35

<210> 111
<211> 33
<212> DNA

<213> Artificial Sequence

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

<400> 111
gcggtcgacg ccaccatgag tgtgctcact cag 33

<210> 112
<211> 49
<212> DNA
<213> Artificial Sequence

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

<400> 112
gacagatggt gcagccacag ttcgttttat ttccagcttg gtcccccct 49

<210> 113
<211> 24
<212> DNA
<213> Artificial Sequence

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

<400> 113
cgaactgtgg ctgcaccatc tgtc 24

<210> 114
<211> 38
<212> DNA
<213> Artificial Sequence

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

<400> 114
cgcgcggccg cctaacactc tcccctgttg aagctctt 38

<210> 115
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 115

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

<210> 116
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 116

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

<210> 117
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 117

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

<210> 118
<211> 15
<212> PRT

<213> Artificial Sequence

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

<400> 118

Ile Thr Cys Ser Lys Met Thr Ser Lys Ile Pro Val Ala Leu Leu
1 5 10 15

<210> 119
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 119

Ser Lys Met Thr Ser Lys Ile Pro Val Ala Leu Leu Ile His Tyr
1 5 10 15

<210> 120
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 120

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

<210> 121
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 121

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

<210> 122
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 122

Ala Leu Leu Ile His Tyr Gln Gln Asn Gln Ala Ser Cys Gly Lys
1 5 10 15

<210> 123
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 123

Ile His Tyr Gln Gln Asn Gln Ala Ser Cys Gly Lys Arg Ala Ile
1 5 10 15

<210> 124
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 124

Gln Gln Asn Gln Ala Ser Cys Gly Lys Arg Ala Ile Ile Leu Glu
1 5 10 15

<210> 125
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 125

Gln Ala Ser Cys Gly Lys Arg Ala Ile Ile Leu Glu Thr Arg Gln
1 5 10 15

<210> 126
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 126

Cys Gly Lys Arg Ala Ile Ile Leu Glu Thr Arg Gln His Arg Leu
1 5 10 15

<210> 127
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 127

Arg Ala Ile Ile Leu Glu Thr Arg Gln His Arg Leu Phe Cys Ala
1 5 10 15

<210> 128
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 128

Ile Leu Glu Thr Arg Gln His Arg Leu Phe Cys Ala Asp Pro Lys
1 5 10 15

<210> 129
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 129

Thr Arg Gln His Arg Leu Phe Cys Ala Asp Pro Lys Glu Gln Trp
1 5 10 15

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

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

<400> 130

His Arg Leu Phe Cys Ala Asp Pro Lys Glu Gln Trp Val Lys Asp
1 5 10 15

<210> 131

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

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

<400> 131

Phe Cys Ala Asp Pro Lys Glu Gln Trp Val Lys Asp Ala Met Gln
1 5 10 15

<210> 132
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 132

Asp Pro Lys Glu Gln Trp Val Lys Asp Ala Met Gln His Leu Asp
1 5 10 15

<210> 133
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 133

Glu Gln Trp Val Lys Asp Ala Met Gln His Leu Asp Arg Gln Ala
1 5 10 15

<210> 134
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 134

Val Lys Asp Ala Met Gln His Leu Asp Arg Gln Ala Ala Ala Leu
1 5 10 15

<210> 135
<211> 16
<212> PRT
<213> Artificial Sequence

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

<400> 135

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