

SEQUENCE LISTING

<110> ADICET BIO, INC.

<120> METHODS FOR SELECTIVE EXPANSION OF GAMMA DELTA T-CELL
POPULATIONS AND COMPOSITIONS THEREOF

<130> ADC-0002-WO

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<151> 2016-05-12

<160> 227

<170> PatentIn version 3.5

<210> 1

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 1

atgctgttct ccagcctgct gtgtgtattt

30

<210> 2

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 2

atgcagagga ttccttcct catccatct

29

<210> 3

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 3
atgattctta ctgtgggctt tagctttttg 30

<210> 4
<211> 30
<212> DNA
<213> Artificial Sequence

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

<400> 4
cttggggtag aattccttca ccagacaagc 30

<210> 5
<211> 29
<212> PRT
<213> Artificial Sequence

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

<400> 5
Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
1 5 10 15

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg
20 25

<210> 6
<211> 29
<212> PRT
<213> Artificial Sequence

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

<400> 6
Pro Gln Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln
1 5 10 15

Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met
20 25

<210> 7

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

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

<400> 7
Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser
1 5 10 15

Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln
20 25

<210> 8
<211> 24
<212> DNA
<213> Artificial Sequence

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

<400> 8
agagtgaagt tcagcaggag cgca 24

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

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

<400> 9
ctcgagtggc tgtagccag a 21

<210> 10
<211> 27
<212> DNA
<213> Artificial Sequence

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

<400> 10
ggtgcttcta gctttcctgt ctcctgc 27

<210> 11
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 <212> DNA
 <213> Artificial Sequence

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

 <400> 11
 atgctgttgg ctctagctct gcttcta 27

 <210> 12
 <211> 27
 <212> DNA
 <213> Artificial Sequence

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

 <400> 12
 atgctgtcac tgctccacac atcaacg 27

 <210> 13
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 <213> Artificial Sequence

 <220>
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 primer

 <400> 13
 ggaagaaaaa tagtgggctt gggggaa 27

 <210> 14
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 <213> Artificial Sequence

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

 <400> 14
 atgacaacac ccagaaattc agtaaattg 29

<210> 15
<211> 29
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 15
tcaaggagag ctgtcatttt ctattggtg

29

<210> 16
<211> 9
<212> PRT
<213> Homo sapiens

<400> 16
Ser Leu Leu Met Trp Ile Thr Gln Cys
1 5

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

<400> 17
Ser Lys Glu Met Ile Phe Leu Ile Arg Gln Gly Ser Asp Glu Gln Asn
1 5 10 15

Ala

<210> 18
<211> 16
<212> PRT
<213> Homo sapiens

<400> 18
Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val Thr Val Glu Pro
1 5 10 15

<210> 19
<211> 17
<212> PRT
<213> Homo sapiens

<400> 19
Leu Thr Ala Gln Leu Phe Phe Gly Lys Gly Thr Gln Leu Ile Val Glu

1 5 10 15

Pro

<210> 20

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 20

Ser Lys Glu Met Ile Phe Leu Ile Arg Gln Gly Ser Asp Glu Gln Asn
1 5 10 15

Ala Lys Ser Gly Arg Tyr Ser Val Asn Phe Lys Lys Ala Ala Lys Ser
20 25 30

Val Ala Leu Thr Ile Ser Ala Leu Gln Leu Glu Asp Ser Ala Lys Tyr
35 40 45

Phe Cys Ala Leu Gly Thr Gly Val Arg Gly Leu Gln Asp Thr Asp Lys
50 55 60

Leu Ile Phe Gly Lys Gly Thr Arg Val Thr Val Glu Pro
65 70 75

<210> 21

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 21

Ser Lys Glu Met Ile Phe Leu Ile Arg Gln Gly Ser Asp Glu Gln Asn
1 5 10 15

Ala Lys Ser Gly Arg Tyr Ser Val Asn Phe Lys Lys Ala Ala Lys Ser
20 25 30

Val Ala Leu Thr Ile Ser Ala Leu Gln Leu Glu Asp Ser Ala Lys Tyr
35 40 45

Phe Cys Ala Leu Gly Glu Ala Pro Ser Ala Trp Gly Lys His Leu Thr
50 55 60

Ala Gln Leu Phe Phe Gly Lys Gly Thr Gln Leu Ile Val Glu Pro
65 70 75

<210> 22
<211> 118
<212> PRT
<213> Homo sapiens

<400> 22
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 23
<211> 121
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 23

Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu Gln Asp Ser Trp Asp Thr Arg Gln Met Phe Phe Gly
100 105 110

Thr Gly Ile Lys Leu Phe Val Glu Pro
115 120

<210> 24

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 24

Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

Lys Ala Val Thr Leu Asn Cys Leu Tyr Glu Thr Ser Trp Trp Ser Tyr

20

25

30

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
 35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
 50 55 60

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

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

Pro Ser Ala Trp Gly Lys His Leu Thr Ala Gln Leu Phe Phe Gly Lys
 100 105 110

Gly Thr Gln Leu Ile Val Glu Pro
 115 120

<210> 25

<211> 144

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 25

Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
 1 5 10 15

Glu Ala Val Thr Leu Asn Cys Leu Tyr Glu Thr Ser Trp Trp Ser Tyr
 20 25 30

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
 35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
 50 55 60

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

65		70		75		80									
Leu	Gln	Leu	Glu	Asp	Ser	Ala	Lys	Tyr	Phe	Cys	Ala	Leu	Gly	Thr	Gly
			85						90					95	
Val	Arg	Gly	Leu	Gln	Asp	Thr	Asp	Lys	Leu	Ile	Phe	Gly	Lys	Gly	Thr
			100					105					110		
Arg	Val	Thr	Val	Glu	Pro	Arg	Ser	Gln	Pro	His	Thr	Lys	Pro	Ser	Val
		115					120					125			
Phe	Val	Met	Lys	Asn	Gly	Thr	Asn	Val	Ala	Cys	Leu	Val	Lys	Glu	Phe
	130					135					140				

<210> 26
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 26
Val Ser Met Pro Val Arg Lys Ala Val Thr Leu
1 5 10

<210> 27
 <211> 118
 <212> PRT
 <213> Artificial Sequence

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

<400> 27
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Asn
1 5 10 15

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

Tyr	Ile	Phe	Trp	Tyr	Lys	Gln	Leu	Pro	Ser	Lys	Glu	Met	Ile	Phe	Leu
	35					40					45				

Ile	Arg	Gln	Gly	Ser	Asp	Glu	Gln	Asn	Ala	Lys	Ser	Gly	Arg	Tyr	Ser
	50					55					60				

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

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

Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 28
<211> 16
<212> PRT
<213> Homo sapiens

<400> 28
Phe Lys Lys Ala Ala Lys Ser Val Ala Leu Thr Ile Ser Ala Leu Gln
1 5 10 15

<210> 29
<211> 25
<212> PRT
<213> Homo sapiens

<400> 29
Ala Lys Ser Gly Arg Tyr Ser Val Asn Phe Lys Lys Ala Ala Lys Ser
1 5 10 15

Val Ala Leu Thr Ile Ser Ala Leu Gln
20 25

<210> 30
<211> 148
<212> PRT
<213> Artificial Sequence

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

<400> 30
Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
1 5 10 15

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

Asp Ile Phe Trp Tyr Lys Gln Leu Pro Ser Gly Glu Met Thr Phe Leu
35 40 45

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

Val Asn Phe Gln Glu Arg His Lys Phe Ile Ser Leu Thr Ile Ser Ala
65 70 75 80

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

Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro Arg Ser Gln Pro His Thr Lys Pro Ser Val
115 120 125

Phe Val Met Lys Asn Gly Thr Asn Val Ala Cys Leu Val Lys Glu Phe
130 135 140

Tyr Pro Lys Asp
145

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

<400> 31
Ser Trp Trp Ser Tyr Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser
1 5 10 15

<210> 32
<211> 91
<212> PRT
<213> Artificial Sequence

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

polypeptide

<400> 32

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

Glu Met Ile Phe Leu Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys
20 25 30

Ser Gly Arg Tyr Ser Val Asn Phe Lys Lys Ala Ala Lys Ser Val Ala
35 40 45

Leu Thr Ile Ser Ala Leu Gln Leu Glu Asp Ser Ala Lys Tyr Phe Cys
50 55 60

Ala Leu Gly Thr Gly Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile
65 70 75 80

Phe Gly Lys Gly Thr Arg Val Thr Val Glu Pro
85 90

<210> 33

<211> 8

<212> PRT

<213> Homo sapiens

<400> 33

Leu Asn Cys Leu Tyr Glu Thr Ser
1 5

<210> 34

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 34

Leu Asn Cys Leu Tyr Glu Thr Ser Trp Trp Ser Tyr Tyr Ile Phe Trp
1 5 10 15

Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu Ile Arg Gln Gly
20 25 30

Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser Val Asn Phe Lys
35 40 45

Lys Ala Ala Lys Ser Val Ala Leu Thr Ile Ser Ala Leu Gln Leu Glu
50 55 60

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

Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val Thr Val
85 90 95

Glu Pro

<210> 35
<211> 10
<212> PRT
<213> Homo sapiens

<400> 35
Ala Lys Ser Gly Arg Tyr Ser Val Asn Phe
1 5 10

<210> 36
<211> 61
<212> PRT
<213> Artificial Sequence

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

<400> 36
Ala Lys Ser Gly Arg Tyr Ser Val Asn Phe Lys Lys Ala Ala Lys Ser
1 5 10 15

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

Phe Cys Ala Leu Gly Thr Gly Val Arg Gly Leu Gln Asp Thr Asp Lys
35 40 45

Leu Ile Phe Gly Lys Gly Thr Arg Val Thr Val Glu Pro

50

55

60

<210> 37

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 37

Ala Lys Ser Gly Arg Tyr Ser Val Asn Phe Lys Lys Ala Ala Lys Ser
 1 5 10 15

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

Phe Cys Ala Leu Gly Glu Ala Pro Ser Ala Trp Gly Lys His Leu Thr
 35 40 45

Ala Gln Leu Phe Phe Gly Lys Gly Thr Gln Leu Ile Val Glu Pro
 50 55 60

<210> 38

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 38

Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
 1 5 10 15

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

Asp Ile Phe Trp Tyr Lys Gln Leu Pro Ser Gly Glu Met Thr Phe Leu
 35 40 45

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

Val Asn Phe Gln Glu Arg His Lys Phe Ile Ser Leu Thr Ile Ser Ala
65 70 75 80

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

Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 39

<211> 116

<212> PRT

<213> Homo sapiens

<400> 39

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Pro
85 90 95

Leu Gly Gly Pro Pro Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
100 105 110

Thr Val Glu Pro
115

<210> 40
<211> 12
<212> PRT
<213> Homo sapiens

<400> 40
Ala Lys Asn Leu Ala Val Leu Lys Ile Leu Ala Pro
1 5 10

<210> 41
<211> 116
<212> PRT
<213> Artificial Sequence

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

<400> 41
Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
1 5 10 15

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

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

Glu Ala Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Pro
85 90 95

Leu Gly Gly Pro Pro Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
100 105 110

Thr Val Glu Pro
115

<210> 42

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

<400> 42
Glu Ala Ile Gly Asn Tyr Tyr
1 5

<210> 43
<211> 116
<212> PRT
<213> Artificial Sequence

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

<400> 43
Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
1 5 10 15

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Asp Ser Ile Ser Asn
20 25 30

Tyr Tyr Thr Phe Trp Tyr Arg Arg Thr Pro Gly Asn Thr Met Thr Leu
35 40 45

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

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

Glu Ala Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Pro
85 90 95

Leu Gly Gly Pro Pro Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
100 105 110

Thr Val Glu Pro
115

<210> 44
<211> 11
<212> PRT

<213> Homo sapiens

<400> 44

Lys Asp Asn Phe Gln Gly Asp Ile Asp Ile Ala
1 5 10

<210> 45

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 45

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

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

Glu Ala Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Pro
85 90 95

Leu Gly Gly Pro Pro Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
100 105 110

Thr Val Glu Pro
115

<210> 46

<211> 27

<212> PRT

<213> Homo sapiens

<400> 46

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly
20 25

<210> 47

<211> 116

<212> PRT

<213> Tursiops truncatus

<400> 47

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

Glu Ser Val Thr Leu Arg Cys Ser Met Lys Gly Asp Ser Ile Ser Asn
20 25 30

Tyr Tyr Thr Phe Trp Tyr Arg Arg Thr Pro Gly Asn Thr Met Thr Leu
35 40 45

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

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

Glu Ala Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Pro
85 90 95

Leu Gly Gly Pro Pro Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
100 105 110

Thr Val Glu Pro
115

<210> 48

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

primer

<400> 48
gcccagaagg ttactcaagc ccagtc 26

<210> 49
<211> 25
<212> DNA
<213> Artificial Sequence

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

<400> 49
gccattgagt tggcgcctga acacc 25

<210> 50
<211> 33
<212> DNA
<213> Artificial Sequence

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

<400> 50
ttacaagaaa aataacttgg cagtcaagag aaa 33

<210> 51
<211> 29
<212> DNA
<213> Artificial Sequence

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

<400> 51
tcttccaact tggaaggag aacgaagtc 29

<210> 52
<211> 25
<212> DNA
<213> Artificial Sequence

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

<400> 52
tcttccaact tggaaggggg aacga 25

<210> 53
<211> 29
<212> DNA
<213> Artificial Sequence

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

<400> 53
tcttccaact tggaaggag aacaaagtc 29

<210> 54
<211> 30
<212> DNA
<213> Artificial Sequence

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

<400> 54
gcaggtcacc tagagcaacc tcaaatttcc 30

<210> 55
<211> 115
<212> PRT
<213> Artificial Sequence

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

<400> 55
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Val Ile Pro Lys Gly Lys Leu Ser Phe Gly Lys Gly Thr Arg Val Thr
100 105 110

Val Glu Pro
115

<210> 56

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 56

Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Cys Leu Gly Asp Thr Tyr Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 57
<211> 118
<212> PRT
<213> Artificial Sequence

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

<400> 57
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Lys Val Tyr Trp Gly Cys Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 58
<211> 118
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 58

Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asp Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu Gln Asp Ala Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 59

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 59

Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Asp Thr Ser Phe Tyr Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg
100 105 110

Val Thr Val Glu Pro
115

<210> 60

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 60

Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Phe Leu Pro Ser Asp Trp Gly Ile Pro Val Thr Asp Lys Leu Ile Phe
100 105 110

Gly Lys Gly Thr Arg Val Thr Val Glu Pro
115 120

<210> 61

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 61

Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Thr Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 62
<211> 124
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 62

Ala	Gln	Lys	Val	Thr	Gln	Ala	Gln	Ser	Ser	Val	Ser	Met	Pro	Val	Arg
1				5				10					15		

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

Tyr	Ile	Phe	Trp	Tyr	Lys	Gln	Leu	Pro	Ser	Lys	Glu	Met	Ile	Phe	Leu
		35					40					45			

Ile	Arg	Gln	Gly	Ser	Asp	Glu	Gln	Asn	Ala	Lys	Ser	Gly	Arg	Tyr	Ser
	50					55					60				

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

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

Ser	Ser	Leu	Asp	Leu	Gly	Asp	Thr	Asp	Asn	His	Tyr	Thr	Asp	Lys	Leu
			100					105					110		

Ile	Phe	Gly	Lys	Gly	Thr	Arg	Val	Thr	Val	Glu	Pro
		115					120				

<210> 63
<211> 119
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 63

Ala	Gln	Lys	Val	Thr	Gln	Ala	Gln	Ser	Ser	Val	Ser	Met	Pro	Val	Arg
1				5				10					15		

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Arg Ser Leu Met Gly Val Tyr Thr Asp Lys Leu Ile Phe Gly Lys Gly
100 105 110

Thr Arg Val Thr Val Glu Pro
115

<210> 64

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 64

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

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

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

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

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Trp Asp Asp Gly Lys Lys Leu Phe Gly Ser Gly Thr Thr Leu Val
100 105 110

Val Thr

<210> 65

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 65

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Asp Asp Thr Arg Leu Gly Lys Lys Ile Lys Val Phe
100 105 110

Ala Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 66

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 66

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

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

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

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

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Trp Ser Asp Lys Lys Leu Phe Gly Ser Gly Thr Thr Leu Val Val
100 105 110

Thr

<210> 67

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 67

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Ile His Lys Lys Leu Phe Gly Ser Gly Thr Thr Leu
100 105 110

Val Val Thr
115

<210> 68

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 68

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

Ser Ser Ala Glu Asn Thr Cys Asp Leu Ala Glu Gly Ser Asn Gly Tyr
20 25 30

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

Tyr Tyr Asp Ser Tyr Asn Ser Lys Val Val Leu Glu Ser Gly Val Ser
50 55 60

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Trp Asp Cys His Tyr Lys Lys Leu Phe Gly Ser Gly Thr Thr Leu
100 105 110

Val Val Thr
115

<210> 69

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 69

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

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

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

Tyr Tyr Asp Val Ser Thr Ala Arg Asp Val Leu Glu Ser Gly Leu Ser
50 55 60

Pro Gly Lys Tyr Tyr Thr His Thr Pro Arg Arg Trp Ser Trp Ile Leu
65 70 75 80

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

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

Ile Val Thr Ser Pro
115

<210> 70

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 70

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

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

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

Tyr Tyr Asp Ser Tyr Asn Ser Lys Val Val Leu Glu Ser Gly Val Ser
50 55 60

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Trp Asp Gly Leu Asp Ala Thr Cys Gly Val Asp Thr Thr Gly Trp
100 105 110

Phe Lys Ile Phe Ala Glu Gly Thr Lys Leu Ile Val Thr Ser Pro
115 120 125

<210> 71
<211> 110
<212> PRT
<213> Artificial Sequence

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

<400> 71
Ser Ser Asn Leu Glu Gly Arg Thr Lys Ser Val Thr Arg Pro Thr Gly
1 5 10 15

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

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

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

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

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

<210> 72
<211> 122
<212> PRT
<213> Artificial Sequence

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

<400> 72
Ala Gly His Leu Glu Gln Pro Gln Ile Ser Ser Thr Lys Thr Leu Ser
1 5 10 15

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Ile Ala Ser Gln Leu Gly Lys Lys Ile Lys Val
100 105 110

Phe Gly Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 73

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 73

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

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

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

Tyr Tyr Asp Val Ser Thr Ala Arg Asp Val Leu Glu Ser Gly Leu Ser
50 55 60

Pro Gly Lys Tyr Tyr Thr His Thr Pro Arg Arg Trp Ser Trp Ile Leu
65 70 75 80

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

Thr Trp Asp Arg Tyr Tyr Tyr Lys Lys Leu Phe Gly Ser Gly Thr Thr
100 105 110

Leu Val Val Thr
115

<210> 74

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 74

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

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

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

Tyr Tyr Asp Val Ser Thr Ala Arg Asp Val Leu Glu Ser Gly Leu Ser
50 55 60

Pro Gly Lys Tyr Tyr Thr His Thr Pro Arg Arg Trp Ser Trp Ile Leu
65 70 75 80

Arg Leu Gln Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Pro Asn
85 90 95

Ser Ser Asp Trp Ile Lys Thr Phe Ala Lys Gly Thr Lys Leu Ile Val
100 105 110

Thr Ser Pro
115

<210> 75
<211> 117
<212> PRT
<213> Artificial Sequence

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

<400> 75
Ser Ser Asn Leu Glu Gly Gly Thr Lys Ser Val Thr Arg Pro Thr Arg
1 5 10 15

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

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

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

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Arg Asp Val Pro Asn Tyr Tyr Lys Lys Leu Phe Gly Ser Gly Thr
100 105 110

Thr Leu Val Val Thr
115

<210> 76
<211> 123
<212> PRT
<213> Artificial Sequence

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

<400> 76

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

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

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

Tyr Tyr Asp Ser Tyr Asn Ser Lys Val Val Leu Glu Ser Gly Val Ser
50 55 60

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Trp Asp Gly Arg Val Ser Tyr Thr Thr Gly Trp Phe Lys Ile Phe
100 105 110

Ala Glu Gly Thr Lys Leu Ile Val Thr Ser Pro
115 120

<210> 77

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 77

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

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

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

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

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Trp Asp Lys Gly Arg Lys Leu Phe Gly Ser Gly Thr Thr Leu Val
100 105 110

Val Thr

<210> 78

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 78

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Thr His Tyr Lys Lys Leu Phe Gly Ser Gly Thr
100 105 110

Thr Leu Val Val Thr
115

<210> 79

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 79

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

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

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

Tyr Tyr Asp Ser Tyr Asn Ser Lys Val Val Leu Glu Ser Gly Val Ser
50 55 60

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Trp Asp Gly Arg Tyr Lys Lys Leu Phe Gly Ser Gly Thr Thr Leu
100 105 110

Val Val Thr
115

<210> 80

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 80

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

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

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

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

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

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Trp Gly Thr Thr Gly Trp Phe Lys Ile Phe Ala Glu Gly Thr Lys
100 105 110

Leu Ile Val Thr Ser Pro
115

<210> 81

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 81

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Lys
85 90 95

Val Leu Gly Val Pro Thr Ala Ser Tyr Thr Asp Asn Lys Leu Ile Phe
100 105 110

Gly Lys Gly Thr Arg Val Thr Val Glu Pro
115 120

<210> 82

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 82

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Ser Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Thr
85 90 95

Val Gly Ile Leu Pro Tyr Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg
100 105 110

Val Thr Val Glu Pro
115

<210> 83

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 83

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Ile
85 90 95

Leu Thr Val Leu Gly Asp Asn Arg Thr Asp Lys Leu Ile Phe Gly Lys
100 105 110

Gly Thr Arg Val Thr Val Glu Pro
115 120

<210> 84
<211> 117
<212> PRT
<213> Artificial Sequence

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

<400> 84
Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
1 5 10 15

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Val
85 90 95

Val Gly Glu Gly Gly Ala Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg
100 105 110

Val Thr Val Glu Pro
115

<210> 85
<211> 118
<212> PRT
<213> Artificial Sequence

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

<400> 85

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Thr
85 90 95

Val Gly Gly Gly Glu Tyr Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 86

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 86

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Thr
85 90 95

Val Gly Thr Gly Asp Ile Arg Thr Tyr Thr Asp Lys Leu Ile Phe Gly
100 105 110

Lys Gly Thr Arg Val Thr Val Glu Pro
115 120

<210> 87

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 87

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Ser
85 90 95

Leu Thr Gly Gly Ser Gly Leu Thr Asp Lys Leu Ile Phe Gly Lys Gly
100 105 110

Thr Arg Val Thr Val Glu Pro
115

<210> 88

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 88

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Pro Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Thr
85 90 95

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

Ile Lys Leu Phe Val Glu Pro
115

<210> 89

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 89

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Pro
85 90 95

Leu Lys Thr Leu Gly Thr Tyr Thr Asp Lys Leu Ile Phe Gly Lys Gly
100 105 110

Thr Arg Val Thr Val Glu Pro
115

<210> 90

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 90

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

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Ala
85 90 95

Val Ile Ala Gly Gly Ser Phe Thr Asp Lys Leu Ile Phe Gly Lys Gly
100 105 110

Thr Arg Val Thr Val Glu Pro
115

<210> 91

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 91

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Asp Gln Glu Leu Gly Lys Lys Ile Lys Val Phe
100 105 110

Gly Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 92

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 92

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Ala Tyr Pro Pro Glu Leu Gly Lys Lys Ile Lys Val
100 105 110

Phe Gly Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 93
<211> 121
<212> PRT
<213> Artificial Sequence

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

<400> 93
Ala Gly His Leu Glu Gln Pro Gln Ile Ser Ser Thr Lys Thr Leu Ser
1 5 10 15

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Val Gln Glu Leu Gly Lys Lys Ile Lys Val Phe
100 105 110

Gly Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 94
<211> 122
<212> PRT
<213> Artificial Sequence

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

<400> 94

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

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

Thr Ser Val Cys Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Val Leu Gln Glu Leu Gly Lys Lys Ile Lys Val
100 105 110

Phe Gly Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 95

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 95

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Lys Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Val Arg Glu Leu Gly Lys Lys Ile Lys Val Phe
100 105 110

Gly Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 96

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 96

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Arg Glu Leu Gly Lys Lys Ile Lys Val Phe Gly Pro
100 105 110

Gly Thr Lys Leu Ile Ile Thr
115

<210> 97

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 97

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Ala Gln Glu Leu Gly Lys Lys Ile Lys Val Phe
100 105 110

Gly Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 98

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 98

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Thr Glu Leu Gly Lys Lys Ile Lys Val Phe Gly
100 105 110

Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 99

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 99

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Glu Val Glu Leu Gly Lys Lys Ile Lys Val Phe
100 105 110

Gly Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 100

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 100

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
85 90 95

Cys Ala Leu Trp Glu Pro Pro Gln Ser Leu Gly Lys Lys Ile Lys Val
100 105 110

Phe Gly Pro Gly Thr Lys Leu Ile Ile Thr
115 120

<210> 101
<211> 355
<212> DNA
<213> Homo sapiens

<400> 101
gccagaagg ttactcaagc ccagtcatca gtatccatgc cagtgaggaa agcagtcacc 60
ctgaactgcc tgtatgaaac aagttggtgg tcatattata ttttttggtg caagcaactt 120
cccagcaaag agatgatttt cttatttcgc cagggttctg atgaacagaa tgcaaaaagt 180
ggtcgctatt ctgtcaactt caagaaagca gcgaaatccg tcgccttaac catttcagcc 240
ttacagctag aagattcagc aaagtacttt tgtgctcttg ggacgggggt gaggggactc 300
caggacaccg ataaactcat ctttgaaaaa ggaacccgtg tgactgtgga accaa 355

<210> 102
<211> 367
<212> DNA
<213> Tursiops truncatus

<400> 102
gccagaaaag ttactcaagt ccagcgagcc atgtccagtc agctagggga ggcggtcacc 60
ttgagctgtc agtatgaaac aagcttgagc tggtagcata ttttttggtg taagcagctt 120
cccagtggag agatgacttt cttatttcac cagatttctt ctgacaaaaa tgcaaagaat 180
ggccgctatt ctgtaaactt tcaggaaaga cataaattca tcagcctcac catttcagcc 240
ttactggtgg aagattctgc aaactacttc tgtgctctcc gggagcgcgt tgtccacgtc 300
gttttattca atacgcgcaa taagccactg ctattcggca aaggaaccta tctgaacgtt 360
gaaccaa 367

<210> 103
<211> 122
<212> PRT
<213> Tursiops truncatus

<400> 103
Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
1 5 10 15

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

Asp Ile Phe Trp Tyr Lys Gln Leu Pro Ser Gly Glu Met Thr Phe Leu
35 40 45

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

Val Asn Phe Gln Glu Arg His Lys Phe Ile Ser Leu Thr Ile Ser Ala
65 70 75 80

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

Val Val His Val Val Leu Phe Asn Thr Arg Asn Lys Pro Leu Leu Phe
100 105 110

Gly Lys Gly Thr Tyr Leu Asn Val Glu Pro
115 120

<210> 104
<211> 355
<212> DNA
<213> Artificial Sequence

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

<400> 104
gcccagaaag ttactcaagt ccagcgagcc atgtccatgc cagtgaggaa agcagtcacc 60
ctgaactgcc tgtatgaaac aagttggtgg tcatattata ttttttggtg caagcaactt 120
cccagcaaag agatgatttt ccttattcgc cagggttctg atgaacagaa tgcaaaaagt 180

ggtcgctatt ctgtcaactt caagaaagca gcgaaatccg tcgccttaac catttcagcc 240
 ttacagctag aagattcagc aaagtacttt tgtgctcttg ggacgggggt gaggggactc 300
 caggacaccg ataaactcat ctttggaataa ggaacccgtg tgactgtgga accaa 355

<210> 105
 <211> 118
 <212> PRT
 <213> Artificial Sequence

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

<400> 105
 Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Met Pro Val Arg
 1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
 35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
 50 55 60

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

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

Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
 100 105 110

Arg Val Thr Val Glu Pro
 115

<210> 106
 <211> 355
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 106

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gcccagaaag ttactcaagt ccagcgagcc atgtccagtc agctagggga ggcggtcacc      60
ttgaactgcc tgtatgaaac aagttggtgg tcatattata ttttttggtg caagcaactt      120
cccagcaaag agatgatttt ccttattcgc cagggttctg atgaacagaa tgcaaaaagt      180
ggtcgctatt ctgtcaactt caagaaagca gcgaaatccg tcgccttaac catttcagcc      240
ttacagctag aagattcagc aaagtacttt tgtgctcttg ggacgggggt gaggggactc      300
caggacaccg ataaactcat ctttggaataa ggaacccgtg tgactgtgga accaa          355
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<210> 107

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 107

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Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
1              5              10             15
```

```
Glu Ala Val Thr Leu Asn Cys Leu Tyr Glu Thr Ser Trp Trp Ser Tyr
                20             25             30
```

```
Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35              40             45
```

```
Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50              55             60
```

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

```
Leu Gln Leu Glu Asp Ser Ala Lys Tyr Phe Cys Ala Leu Gly Thr Gly
85              90             95
```

```
Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100             105            110
```

Arg Val Thr Val Glu Pro
115

<210> 108
<211> 355
<212> DNA
<213> Artificial Sequence

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

<400> 108
gcccagaaag ttactcaagt ccagcgagcc atgtccagtc agctagggga ggcggtcacc 60
ttgagctgtc agtatgaaac aagctggtgg tcatattata ttttttggtg caagcaactt 120
cccagcaaag agatgatttt ccttattcgc cagggttctg atgaacagaa tgcaaaaagt 180
ggtcgctatt ctgtcaactt caagaaagca gcgaaatccg tcgccttaac catttcagcc 240
ttacagctag aagattcagc aaagtacttt tgtgctcttg ggacgggggt gaggggactc 300
caggacaccg ataaactcat ctttggaataa ggaacccgtg tgactgtgga accaa 355

<210> 109
<211> 118
<212> PRT
<213> Artificial Sequence

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

<400> 109
Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 110
<211> 355
<212> DNA
<213> Artificial Sequence

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

<400> 110
gccagaaaag ttactcaagt ccagcgagcc atgtccagtc agctagggga ggcggtcacc 60
ttgagctgtc agtatgaaac aagcttgagc tggtacgata ttttttggtg taagcagctt 120
cccagtaaag agatgatttt cttatttcgc cagggttctg atgaacagaa tgcaaaaagt 180
ggtcgctatt ctgtcaactt caagaaagca gcgaaatccg tcgccttaac catttcagcc 240
ttacagctag aagattcagc aaagtacttt tgtgctcttg ggacgggggt gaggggactc 300
caggacaccg ataaactcat ctttggaata ggaaccctg tgactgtgga accaa 355

<210> 111
<211> 118
<212> PRT
<213> Artificial Sequence

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

<400> 111
Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
1 5 10 15

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

Asp Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 112

<211> 355

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 112

gcccagaaag ttactcaagt ccagcgagcc atgtccagtc agctagggga ggcggtcacc	60
ttgagctgtc agtatgaaac aagcttgagc tggtagcata ttttttggtta taagcagctt	120
cccagtggag agatgacttt ccttattcat cagatttctg atgaacagaa tgcaaaaagt	180
ggtcgctatt ctgtcaactt caagaaagca gcgaaatccg tcgccttaac catttcagcc	240
ttacagctag aagattcagc aaagtacttt tgtgctcttg ggacgggggt gaggggactc	300
caggacaccg ataaactcat ctttggaataa ggaacccgtg tgactgtgga accaa	355

<210> 113

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 113

Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
1 5 10 15

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

Asp Ile Phe Trp Tyr Lys Gln Leu Pro Ser Gly Glu Met Thr Phe Leu
35 40 45

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

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

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

Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
100 105 110

Arg Val Thr Val Glu Pro
115

<210> 114

<211> 355

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 114

gcccagaaag ttactcaagt ccagcgagcc atgtccagtc agctagggga ggcggtcacc 60

ttgagctgtc agtatgaaac aagcttgagc tggtacgata ttttttggtg taagcagctt 120

cccagtgagg agatgacttt ccttattcat cagatttctt ctgacaaaa tgcaaagaat 180

ggccgctatt ctgtaaactt taagaaagca gcgaaatccg tcgccttaac catttcagcc	240
ttacagctag aagattcagc aaagtacttt tgtgctcttg ggacgggggt gaggggactc	300
caggacaccg ataaactcat ctttggaaaa ggaacccgtg tgactgtgga accaa	355

<210> 115
 <211> 118
 <212> PRT
 <213> Artificial Sequence

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

<400> 115
 Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
 1 5 10 15
 Glu Ala Val Thr Leu Ser Cys Gln Tyr Glu Thr Ser Leu Ser Trp Tyr
 20 25 30
 Asp Ile Phe Trp Tyr Lys Gln Leu Pro Ser Gly Glu Met Thr Phe Leu
 35 40 45
 Ile His Gln Ile Ser Ser Asp Gln Asn Ala Lys Asn Gly Arg Tyr Ser
 50 55 60
 Val Asn Phe Lys Lys Ala Ala Lys Ser Val Ala Leu Thr Ile Ser Ala
 65 70 75 80
 Leu Gln Leu Glu Asp Ser Ala Lys Tyr Phe Cys Ala Leu Gly Thr Gly
 85 90 95
 Val Arg Gly Leu Gln Asp Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr
 100 105 110
 Arg Val Thr Val Glu Pro
 115

<210> 116
 <211> 355
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 116

gccagaaaag ttactcaagt ccagcgagcc atgtccagtc agctagggga ggcggtcacc	60
ttgagctgtc agtatgaaac aagcttgagc tggtagcata ttttttggtta taagcagctt	120
cccagtggag agatgacttt cttattcat cagatttctt ctgacaaaaa tgcaaagaat	180
ggccgctatt ctgtaaaactt tcaggaaaga cataaattca tcagcctcac catttcagcc	240
ttacagctag aagattcagc aaagtacttt tgtgctcttg ggacgggggt gaggggactc	300
caggacaccg ataaactcat ctttgaaaaa ggaacccgtg tgactgtgga accaa	355

<210> 117

<211> 367

<212> DNA

<213> Homo sapiens

<400> 117

gcaggtcacc tagagcaacc tcaaatttcc agtactaaaa cgctgtcaaa aacagccgc	60
ctggaatgtg tgggtgtctgg aataacaatt tctgcaacat ctgtatattg gtatcgagag	120
agacctggtg aagtcataca gttcctggtg tccatttcat atgacggcac tgtcagaaag	180
gaatccggca ttccgtcagg caaatttgag gtggatagga tacctgaaac gtctacatcc	240
actctcacca ttcacaatgt agagaaacag gacatagcta cctactactg tgccttgtgg	300
gaggtaaagc aagagttggg caaaaaaatc aaggtatttg gtcccgaac aaagcttatc	360
attacag	367

<210> 118

<211> 122

<212> PRT

<213> Homo sapiens

<400> 118

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

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

Thr Ser Val Tyr Trp Tyr Arg Glu Arg Pro Gly Glu Val Ile Gln Phe
 35 40 45

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

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

Thr Leu Thr Ile His Asn Val Glu Lys Gln Asp Ile Ala Thr Tyr Tyr
 85 90 95

Cys Ala Leu Trp Glu Val Lys Gln Glu Leu Gly Lys Lys Ile Lys Val
 100 105 110

Phe Gly Pro Gly Thr Lys Leu Ile Ile Thr
 115 120

<210> 119
 <211> 349
 <212> DNA
 <213> Homo sapiens

<400> 119
 gccattgagt tggatgcctga acaccaaaca gtgcctgtgt caataggggt ccctgccacc 60
 ctcagggtgct ccatgaaagg agaagcgatc ggtaactact atatcaactg gtacaggaag 120
 acccaaggta acacaatgac ttcatatac cgagaaaagg acatctatgg ccctgggtttc 180
 aaagacaatt tccaagggtga cattgatatt gcaaagaacc tggctgtact taagatactt 240
 gcaccatcag agagagatga agggctttac tactgtgcct gtgaccctct tggcggaccc 300
 cccgataaac tcattctttgg aaaaggaacc cgtgtgactg tggaaccaa 349

<210> 120
 <211> 349
 <212> DNA
 <213> Tursiops truncatus

<400> 120
 gctgtcacgt tggatgcctca aaaccaagca aggagtgtgt ctgtggggga atctgtcacc 60
 ctcagggtgct ccatgaaagg agactccatc agtaactatt ataccttctg gtacaggaga 120
 acaccgggta acacaatgac tctcatatac cgagaagggg gcacatatgg ccctgggtttc 180

gaagacaacc tccaaggtga aattgatttt ttaaacaacc aggctgtgct gaatatacctg	240
gaggcatcag agagagatga aggatcttac tactgtgcct gtgaccctct tggcggaccc	300
cccgataaac tcatactttgg aaaaggaacc cgtgtgactg tggaaccaa	349

<210> 121
 <211> 349
 <212> DNA
 <213> Artificial Sequence

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

<400> 121	
gccattgagt tggcgcctga acaccaaaca gtgcctgtgt caataggggt ccctgccacc	60
ctcaggtgct ccatgaaagg agactccatc agtaactatt ataccttctg gtacaggaga	120
acaccgggta acacaatgac tctcatatac cgagaagggg gcacatatgg ccctggtttc	180
gaagacaacc tccaaggtga aattgatttt ttaaacaacc aggctgtgct gaatatacctg	240
gaggcatcag agagagatga aggatcttac tactgtgcct gtgaccctct tggcggaccc	300
cccgataaac tcatactttgg aaaaggaacc cgtgtgactg tggaaccaa	349

<210> 122
 <211> 349
 <212> DNA
 <213> Artificial Sequence

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

<400> 122	
gccattgagt tggcgcctga acaccaaaca gtgcctgtgt caataggggt ccctgccacc	60
ctcaggtgct ccatgaaagg agaagcgatc ggtaactact atatcaactg gtacaggaga	120
acaccgggta acacaatgac tctcatatac cgagaagggg gcacatatgg ccctggtttc	180
gaagacaacc tccaaggtga aattgatttt ttaaacaacc aggctgtgct gaatatacctg	240
gaggcatcag agagagatga aggatcttac tactgtgcct gtgaccctct tggcggaccc	300
cccgataaac tcatactttgg aaaaggaacc cgtgtgactg tggaaccaa	349

<210> 123
<211> 116
<212> PRT
<213> Artificial Sequence

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

<400> 123
Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
1 5 10 15

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Arg Thr Pro Gly Asn Thr Met Thr Leu
35 40 45

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

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

Glu Ala Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Pro
85 90 95

Leu Gly Gly Pro Pro Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
100 105 110

Thr Val Glu Pro
115

<210> 124
<211> 349
<212> DNA
<213> Artificial Sequence

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

<400> 124
gccattgagt tggcgcctga acaccaaaca gtcgcctgtgt caataggggt ccctgccacc

ctcaggtgct ccatgaaagg agaagcgatc ggtaactact atatcaactg gtacaggaag	120
acccaaggta acacaatgac ttcatatac cgagaaaagg acatctatgg ccctggtttc	180
gaagacaacc tccaagggtga aattgatttt ttaaacaacc aggctgtgct gaatatacctg	240
gaggcatcag agagagatga aggatcttac tactgtgcct gtgaccctct tggcggaccc	300
cccgataaac tcatctttgg aaaaggaacc cgtgtgactg tggaaccaa	349

<210> 125

<211> 349

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 125

gccattgagt tggcgcctga acaccaaaca gtgcctgtgt caataggggt ccctgccacc	60
ctcaggtgct ccatgaaagg agaagcgatc ggtaactact atatcaactg gtacaggaag	120
acccaaggta acacaatgac ttcatatac cgagaaaagg acatctatgg ccctggtttc	180
aaagacaatt tccaagggtga cattgatttt ttaaacaacc aggctgtgct gaatatacctg	240
gaggcatcag agagagatga aggatcttac tactgtgcct gtgaccctct tggcggaccc	300
cccgataaac tcatctttgg aaaaggaacc cgtgtgactg tggaaccaa	349

<210> 126

<211> 349

<212> DNA

<213> Homo sapiens

<400> 126

gccattgagt tggcgcctga acaccaaaca gtgcctgtgt caataggggt ccctgccacc	60
ctcaggtgct ccatgaaagg agaagcgatc agtaactact atatcaactg gtacaggaag	120
acccaaggta acacaatgac ttcatatac cgagaaaagg acatctatgg ccctggtttc	180
aaagacaatt tccaagggtga cattgatatt gcaaagaacc tggctgtact taagatactt	240
gcaccatcag agagagatga agggctcttac tactgtgcct gtgaccctct tggcggaccc	300
cccgataaac tcatctttgg aaaaggaacc cgtgtgactg tggaaccaa	349

<210> 127

<211> 116
 <212> PRT
 <213> Homo sapiens

<400> 127
 Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
 1 5 10 15

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Ser Asn
 20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
 35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
 65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Pro
 85 90 95

Leu Gly Gly Pro Pro Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
 100 105 110

Thr Val Glu Pro
 115

<210> 128
 <211> 349
 <212> DNA
 <213> Homo sapiens

<400> 128
 gccattgagt tggcgcctga acaccaaaca gtcctgtgt caataggggt ccctgccacc 60
 ctcaggtgct ccatgaaagg agaagcgatc ggtaactact atatcaactg gtacaggaag 120
 acccaaggta acacaatgac tttcatatac cgagaaaagg gcatctatgg ccctgggtttc 180
 aaagacaatt tccaagggtga cattgatatt gcaaagaacc tggctgtact taagatactt 240
 gcaccatcag agagagatga agggctttac tactgtgcct gtgacctct tggcggaccc 300
 cccgataaac tcatctttgg aaaaggaacc cgtgtgactg tggaaccaa 349

<210> 129
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 129
 Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
 1 5 10 15

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
 20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
 35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
 65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Pro
 85 90 95

Leu Gly Gly Pro Pro Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
 100 105 110

Thr Val Glu Pro
 115

<210> 130
 <211> 349
 <212> DNA
 <213> Homo sapiens

<400> 130
 gccattgagt tggcctga acaccaaaca gtgcctgtgt caataggggt ccctgccacc 60
 ctcaggtgct ccatgaaagg agaagcgatc ggtaactact atatcaactg gtacaggaag 120
 acccaaggta acacaatgac ttcatatac cgagaaaagg acatctatgg ccctgggttc 180
 aaagacaatt tccaagggtga cattgatatt gcaaagaacc tggctgtact taagatactt 240

gcaccatcag agagagatga agggctcttac tactgtgcct ctgaccctct tggcggaccc 300
 cccgataaac tcatctttgg aaaaggaacc cgtgtgactg tggaaccaa 349

<210> 131
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 131
 Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
 1 5 10 15

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
 20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
 35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
 65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Ser Asp Pro
 85 90 95

Leu Gly Gly Pro Pro Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
 100 105 110

Thr Val Glu Pro
 115

<210> 132
 <211> 287
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(285)

<400> 132

gcc	cag	aag	gtt	act	caa	gcc	cag	tca	tca	gta	tcc	atg	cca	gtg	agg	48
Ala	Gln	Lys	Val	Thr	Gln	Ala	Gln	Ser	Ser	Val	Ser	Met	Pro	Val	Arg	
1				5					10					15		

aaa	gca	gtc	acc	ctg	aac	tgc	ctg	tat	gaa	aca	agt	tgg	tgg	tca	tat	96
Lys	Ala	Val	Thr	Leu	Asn	Cys	Leu	Tyr	Glu	Thr	Ser	Trp	Trp	Ser	Tyr	
			20					25					30			

tat	att	ttt	tgg	tac	aag	caa	ctt	ccc	agc	aaa	gag	atg	att	ttc	ctt	144
Tyr	Ile	Phe	Trp	Tyr	Lys	Gln	Leu	Pro	Ser	Lys	Glu	Met	Ile	Phe	Leu	
		35					40					45				

att	cgc	cag	ggg	tct	gat	gaa	cag	aat	gca	aaa	agt	ggg	cgc	tat	tct	192
Ile	Arg	Gln	Gly	Ser	Asp	Glu	Gln	Asn	Ala	Lys	Ser	Gly	Arg	Tyr	Ser	
	50					55					60					

gtc	aac	ttc	aag	aaa	gca	gcg	aaa	tcc	gtc	gcc	tta	acc	att	tca	gcc	240
Val	Asn	Phe	Lys	Lys	Ala	Ala	Lys	Ser	Val	Ala	Leu	Thr	Ile	Ser	Ala	
65					70					75					80	

tta	cag	cta	gaa	gat	tca	gca	aag	tac	ttt	tgt	gct	ctt	ggg	gaa	ct	287
Leu	Gln	Leu	Glu	Asp	Ser	Ala	Lys	Tyr	Phe	Cys	Ala	Leu	Gly	Glu		
				85					90					95		

<210> 133
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 133																
Ala	Gln	Lys	Val	Thr	Gln	Ala	Gln	Ser	Ser	Val	Ser	Met	Pro	Val	Arg	
1				5					10					15		

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

Tyr	Ile	Phe	Trp	Tyr	Lys	Gln	Leu	Pro	Ser	Lys	Glu	Met	Ile	Phe	Leu	
		35					40					45				

Ile	Arg	Gln	Gly	Ser	Asp	Glu	Gln	Asn	Ala	Lys	Ser	Gly	Arg	Tyr	Ser	
	50					55					60					

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

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

<210> 134
 <211> 288
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(288)

<400> 134
 gcc att gag ttg gtg cct gaa cac caa aca gtg cct gtg tca ata ggg 48
 Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
 1 5 10 15
 gtc cct gcc acc ctc agg tgc tcc atg aaa gga gaa gcg atc ggt aac 96
 Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
 20 25 30
 tac tat atc aac tgg tac agg aag acc caa ggt aac aca atc act ttc 144
 Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Ile Thr Phe
 35 40 45
 ata tac cga gaa aag gac atc tat ggc cct ggt ttc aaa gac aat ttc 192
 Ile Tyr Arg Glu Lys Asp Ile Tyr Gly Pro Gly Phe Lys Asp Asn Phe
 50 55 60
 caa ggt gac att gat att gca aag aac ctg gct gta ctt aag ata ctt 240
 Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
 65 70 75 80
 gca cca tca gag aga gat gaa ggg tct tac tac tgt gcc tgt gac acc 288
 Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Thr
 85 90 95

<210> 135
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 135
 Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
 1 5 10 15
 Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
 20 25 30
 Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Ile Thr Phe
 35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Thr
85 90 95

<210> 136
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(288)

<400> 136
gcc att gag ttg gtg cct gaa cac caa aca gtg cct gtg tca ata agg 48
Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
1 5 10 15
atc cct gcc acc ctc agg tgc tcc atg aaa gga gaa gcg atc ggt aac 96
Ile Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30
tac tat atc aac tgg tac agg aag acc caa ggt aac aca atg act ttc 144
Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45
ata tac cga gaa aag gac atc tat ggc cct ggt ttc aaa gac aat ttc 192
Ile Tyr Arg Glu Lys Asp Ile Tyr Gly Pro Gly Phe Lys Asp Asn Phe
50 55 60
caa ggt gac att gat att gca aag aac ctg gct gta ctt aag ata ctt 240
Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80
gca cca tca gag aga gat gaa ggg tct tac tac tgt gcc tgt gac acc 288
Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Thr
85 90 95

<210> 137
<211> 96
<212> PRT
<213> Homo sapiens

<400> 137

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

Ile Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Thr
85 90 95

<210> 138

<211> 38

<212> PRT

<213> Homo sapiens

<400> 138

Ala Lys Tyr Phe Cys Ala Leu Gly Thr Gly Val Arg Gly Leu Gln Asp
1 5 10 15

Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val Thr Val Glu Pro
20 25 30

Arg Ser Gln Pro His Thr
35

<210> 139

<211> 41

<212> PRT

<213> Homo sapiens

<400> 139

Ala Lys Tyr Phe Cys Ala Leu Leu Pro Phe Leu Pro Ser Asp Trp Gly
1 5 10 15

Ile Pro Val Thr Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val Thr

20

25

30

Val Glu Pro Arg Ser Gln Pro His Thr
35 40

<210> 140

<211> 40

<212> PRT

<213> Homo sapiens

<400> 140

Ala Lys Tyr Phe Cys Ala Leu Gly Glu Ala Pro Ser Ala Trp Gly Lys
1 5 10 15

His Leu Thr Ala Gln Leu Phe Phe Gly Lys Gly Thr Gln Leu Ile Val
20 25 30

Glu Pro Arg Ser Gln Pro His Thr
35 40

<210> 141

<211> 42

<212> PRT

<213> Homo sapiens

<400> 141

Ala Lys Tyr Phe Cys Ala Leu Gly Glu Ala Pro Ser Ala Trp Gly Lys
1 5 10 15

His Ser Trp Asp Thr Arg Gln Met Phe Phe Gly Thr Gly Ile Lys Leu
20 25 30

Phe Val Glu Pro Arg Ser Gln Pro His Thr
35 40

<210> 142

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 142

Ala Lys Tyr Phe Cys Ala Leu Gly Thr Gly Val Arg Gly Leu Gln Asp

1	5				10				15						
Thr	Asp	Lys	Leu	Ile	Phe	Gly	Thr	Gly	Thr	Arg	Val	Thr	Val	Glu	Pro
			20					25					30		

Arg Ser Gln Pro His Thr
35

<210> 143
<211> 42
<212> PRT
<213> Artificial Sequence

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

<400> 143
Ala Lys Tyr Phe Cys Ala Leu Gly Glu Ala Pro Ser Ala Trp Gly Lys
1 5 10 15

His Ser Trp Asp Thr Arg Gln Met Phe Phe Gly Lys Gly Ile Lys Leu
20 25 30

Phe Val Glu Pro Arg Ser Gln Pro His Thr
35 40

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<210> 144
<211> 100
<212> PRT
<213> Homo sapiens
```

<400> 144
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu
100

<210> 145
<211> 100
<212> PRT
<213> Homo sapiens

<400> 145
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Tyr Ser Asp Asp Gly Asn Ala Arg Asp Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu
100

<210> 146
<211> 100
<212> PRT
<213> Homo sapiens

<400> 146
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg

1	5	10	15
Lys	Ala	Val	Thr
	20		
Leu	Asn	Cys	Leu
			25
Tyr	Glu	Thr	Ser
			30
Trp	Trp	Ser	Tyr
Tyr	Ile	Phe	Trp
	35		
Tyr	Lys	Gln	Leu
			40
Pro	Ser	Gly	Gln
			45
Met	Thr	Tyr	Leu
Ile	Arg	Gln	Gly
	50		
Ser	Asp	Glu	Gln
			55
Asn	Ala	Lys	Ser
			60
Gly	Arg	Tyr	Ser
Val	Asn	Phe	Lys
	65		
Lys	Lys	Ala	Ala
			70
Lys	Ser	Val	Ala
			75
Leu	Thr	Ile	Ser
			80
Ala			
Leu	Gln	Leu	Glu
			85
Asp	Ser	Ala	Lys
Tyr	Phe	Cys	Ala
	90		
Leu	Gly	Thr	Gly
			95
Val	Arg	Gly	Leu
			100

<210> 147
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 147
 Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
 1 5 10 15

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

Tyr	Ile	Phe	Trp
	35		
Tyr	Lys	Gln	Leu
			40
Pro	Ser	Lys	Glu
			45
Met	Ile	Phe	Leu

Ile	Arg	Gln	Gly
	50		
Ser	Asp	Glu	Gln
			55
Asn	Ala	Lys	Ser
			60
Gly	Arg	Tyr	Ser

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

Leu	Glu	Leu	Glu
Asp	Ser	Ala	Met
Tyr	Phe	Cys	Val
Leu	Gly	Thr	Gly

85

90

95

Val Arg Gly Leu
100

<210> 148
<211> 100
<212> PRT
<213> Homo sapiens

<400> 148
Ala Gln Lys Val Thr Gln Ala Gln Pro Asp Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu
100

<210> 149
<211> 100
<212> PRT
<213> Homo sapiens

<400> 149
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

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

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

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

Val Arg Gly Leu
100

<210> 150
<211> 100
<212> PRT
<213> Homo sapiens

<400> 150
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

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

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Arg Asp Gly Arg Tyr Ser
50 55 60

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

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

Val Arg Gly Leu
100

<210> 151
<211> 96
<212> PRT
<213> Homo sapiens

<400> 151
Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
1 5 10 15

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Ile Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Cys Asp Thr
85 90 95

<210> 152
<211> 96
<212> PRT
<213> Macaca mulatta

<400> 152
Ala Val Glu Leu Val Pro Glu His Gln Thr Val Ile Val Ser Val Gly
1 5 10 15

Asp Pro Ala Thr Leu Lys Cys Ser Met Lys Gly Glu Ala Ile Ser Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Met Thr Phe
35 40 45

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

Gln Gly Asp Ile Asp Thr Glu Glu Asn Gln Ala Val Leu Lys Ile Leu

65		70		75		80
Ala	Pro	Ser	Glu	Arg	Asp	Glu
			85			
				Gly	Ser	Tyr
					90	
						Tyr
						Cys
						Ala
						Ser
						Asp
						95
						Arg

<210> 153
 <211> 117
 <212> PRT
 <213> Artificial Sequence

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

<400> 153
Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Met Val Lys Pro Ser Gln
1 5 10 15

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

Tyr Asp Trp His Trp Ile Arg His Phe Pro Gly Asn Lys Leu Glu Trp
35 40 45

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

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

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

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

Val Thr Val Ser Ala
115

<210> 154
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 154

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

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

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

Gly Ala Ile Asp Pro Glu Thr Gly Arg Thr Ala Tyr Asn Gln Lys Phe
50 55 60

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

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

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

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

<210> 155

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 155

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

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

Tyr Met Asp Trp Val Lys Gln Ser His Gly Arg Ser Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Pro Lys Asn Val Gly Ile Ser Tyr Asn Gln Lys Phe
50 55 60

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

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

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

Ser Val Thr Val Ser Ser
115

<210> 156

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 156

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

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

Asp Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

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

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

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

Ala Arg Met Asp Asp Tyr Asp Asp Gly Gly Ala Met Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 157

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 157

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

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

Gly Tyr His Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Arg Leu Glu
35 40 45

Trp Met Gly Tyr Ile His Asn Ser Gly Ser Thr Asn Tyr Asn Ser Phe
50 55 60

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

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

Cys Val Ala Tyr Tyr Ser Asn Ser Arg Glu Phe Trp Tyr Ala Tyr Trp
100 105 110

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

<210> 158
<211> 120
<212> PRT
<213> Artificial Sequence

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

<400> 158
Glu Val Gln Leu Gln Gln Ser Gly Thr Val Leu Ala Arg Pro Gly Ser
1 5 10 15

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

Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Asp Trp Ile
35 40 45

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

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

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

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

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 159
<211> 119
<212> PRT
<213> Artificial Sequence

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

<400> 159
Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Arg Pro Gly Ala

1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Ala Pro Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Met Asn Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Lys Ile Asp Pro Tyr Asp Ser Glu Thr His Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asp Lys Ala Ile Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Asp Asn Tyr Asp Pro Phe Ala Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ala
 115

<210> 160
 <211> 121
 <212> PRT
 <213> Artificial Sequence

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

<400> 160
 Gln Val Gln Leu Gln Gln Pro Gly Ala Asp Leu Val Arg Pro Gly Thr
 1 5 10 15

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

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

Gly Val Ile Asp Pro Ser Asp Ser Tyr Thr Asn Tyr Asn Gln Lys Phe

50

55

60

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

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

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

Gln Gly Thr Thr Leu Thr Val Ser Ala
115 120

<210> 161

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 161

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

Ser Met Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Ala
20 25 30

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

Ala Glu Ile Arg Ala Glu Ala Asn Asn His Ala Thr Tyr Tyr Ala Glu
50 55 60

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

Val Phe Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Gly Ile Tyr
85 90 95

Tyr Cys Thr Gly Leu Asp Tyr Gly Ser Ile Gly Phe Ala Tyr Trp Gly

100

105

110

Gln Gly Thr Leu Val Thr Val Ser Ala
 115 120

<210> 162

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 162

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

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

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

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

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 163

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 163

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

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

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

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

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

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

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

Val Thr Val Ser Ala
115

<210> 164

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 164

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

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

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

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

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

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

Asn Tyr Tyr Gly Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val
100 105 110

Ser Ser

<210> 165

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 165

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

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

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

Gly Asp Leu Asp Pro Gly Thr Gly Val Thr Ala Tyr Asn Gln Lys Phe
50 55 60

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

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

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

Ser Ser

<210> 166

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 166

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

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

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

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

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

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

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

Ser Ser

<210> 167
<211> 114
<212> PRT
<213> Artificial Sequence

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

<400> 167
Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ala
1 5 10 15

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

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

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

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

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

Thr Glu Leu Gly Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val
100 105 110

Ser Ser

<210> 168
<211> 120
<212> PRT
<213> Artificial Sequence

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

<400> 168
Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu

1	5	10	15
Thr Val Lys	Ile Ser Cys Lys	Val Ser Gly Asp Thr	Phe Thr Thr Tyr
	20	25	30
Gly Met Ser	Trp Val Lys Gln	Ala Pro Gly Lys Gly	Leu Lys Trp Met
	35	40	45
Gly Trp Ile	Asn Thr Tyr Ser	Gly Val Pro Thr	Tyr Ala Asp Asp Phe
	50	55	60
Lys Gly Arg	Phe Ala Phe Ser	Leu Glu Thr Ser	Ala Ser Thr Ala Tyr
65	70	75	80
Leu Gln Ile	Asn Asn Leu Lys	Asn Glu Asp Thr	Ala Thr Tyr Phe Cys
	85	90	95
Ala Arg Ser	Ser Tyr Asp Tyr	Asp Asp Ala Met	Asp Tyr Trp Gly Gln
	100	105	110
Gly Thr Ser	Val Thr Val Ser	Ser	
	115	120	

<210> 169
 <211> 121
 <212> PRT
 <213> Artificial Sequence

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

<400> 169
Glu Val Lys Phe Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Met Lys	Leu Ser Cys Ala	Ala Ser Gly Phe Thr Phe	Ser Asp Ala
20	25	30	

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

Ala Glu Ile	Arg Ala Glu	Ala Asn Asn His	Ala Thr Tyr Tyr	Ala Glu
-------------	-------------	-----------------	-----------------	---------

50

55

60

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

Val Phe Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Gly Ile Tyr
85 90 95

Tyr Cys Thr Gly Leu Asp Tyr Gly Ser Val Gly Phe Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 170

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 170

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

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

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

Gly Ala Ile Asp Pro Glu Thr Gly Ile Thr Ala Tyr Asn Gln Lys Phe
50 55 60

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

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

Ile Arg Pro Arg Gly Gly Ser His Phe Asp Tyr Trp Gly Gln Gly Thr

100

105

110

Thr Leu Thr Val Ser Ser
115

<210> 171

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 171

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

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

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

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

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

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

Thr Glu Leu Gly Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val
100 105 110

Ser Ser

<210> 172

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 172

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

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

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

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

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

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

Thr Arg Pro Arg Gly Gly Ser His Phe Asp His Trp Gly Gln Gly Thr
100 105 110

Pro Leu Thr Val Ser Ser
115

<210> 173

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 173

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

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

Gly Tyr Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Asn Leu Glu
35 40 45

Trp Met Gly Tyr Ile Ser His Asp Gly Ser Asn Asn Tyr Asn Pro Ala
50 55 60

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

Phe Leu Lys Leu Asn Ser Val Thr Thr Glu Asp Thr Gly Thr Tyr Tyr
85 90 95

Cys Ala Ser Val Tyr Tyr Gly Asp Tyr Glu Val Trp Tyr Thr Tyr Trp
100 105 110

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

<210> 174

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 174

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

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

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

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

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

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

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

Val Thr Val Ser Ala
115

<210> 175

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 175

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

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

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

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

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

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

Ala Arg Asn His Ile Tyr Tyr Tyr Asp Gly Gly Tyr Phe Tyr Tyr Ala
100 105 110

Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
115 120 125

<210> 176
<211> 117
<212> PRT
<213> Artificial Sequence

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

<400> 176
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ala
1 5 10 15

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

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

Gly Ala Ile Asp Pro Glu Thr Gly Arg Thr Ala Tyr Asn Gln Lys Phe
50 55 60

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

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

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

Val Thr Val Ser Ala
115

<210> 177
<211> 117
<212> PRT
<213> Artificial Sequence

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

<400> 177
Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser

1				5					10					15			
Gln	Ser	Leu	Ser	Leu	Thr	Cys	Ser	Val	Thr	Gly	Tyr	Ser	Ile	Thr	Ser		
			20					25					30				
Asp	Tyr	Tyr	Trp	Asn	Trp	Ile	Arg	Gln	Phe	Pro	Gly	Asn	Lys	Leu	Glu		
		35					40					45					
Trp	Met	Gly	Tyr	Ile	Thr	Tyr	Asp	Gly	Ser	Asn	Asn	Tyr	Asn	Pro	Ser		
	50					55					60						
Leu	Lys	Asn	Arg	Ile	Ser	Ile	Thr	Arg	Asp	Thr	Ser	Lys	Asn	Gln	Phe		
65					70					75					80		
Phe	Leu	Lys	Leu	Asn	Ser	Val	Thr	Thr	Glu	Asp	Thr	Ala	Thr	Tyr	Tyr		
				85					90					95			
Cys	Ala	Arg	Asp	Asp	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Thr		
			100					105					110				
Leu	Thr	Val	Ser	Ser													
		115															
<210> 178																	
<211> 113																	
<212> PRT																	
<213> Artificial Sequence																	
<220>																	
<223> Description of Artificial Sequence: Synthetic polypeptide																	
<400> 178																	
Glu	Val	Lys	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly		
1				5					10					15			
Ser	Leu	Lys	Leu	Ser	Cys	Ala	Thr	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ser		
			20					25					30				
Tyr	Met	Tyr	Trp	Val	Arg	Gln	Thr	Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val		
		35				40						45					
Ala	Tyr	Ile	Ser	Tyr	Gly	Gly	Val	Asn	Thr	Tyr	Tyr	Pro	Asp	Thr	Val		

50

55

60

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

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

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

Ser

<210> 179

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 179

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

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

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

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

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

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

Ala Arg Glu Gly Ala Tyr Ser Ser Phe Asp Tyr Trp Gly Gln Gly Thr

100

105

110

Thr Leu Thr Val Ser Ser
115

<210> 180

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 180

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

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

Gly Asn Ser Phe Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
50 55 60

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

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

Glu Asp Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 181

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 181

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

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Arg Ser Ser Pro Lys Pro Trp Ile Tyr
35 40 45

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

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

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

<210> 182

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 182

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

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

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

Tyr Ala Ala Thr Tyr 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 Ser
65 70 75 80

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

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

<210> 183

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 183

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

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His Ser
20 25 30

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

Pro Lys Leu Leu Ile Tyr Leu Val Ser Lys Leu Glu Ser Gly Val Pro
50 55 60

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

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

Thr His Phe Pro Leu Thr Cys Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105 110

<210> 184

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 184

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

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

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

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

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

Asp Tyr Ser Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu
100 105 110

Lys

<210> 185

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 185

Asp Ile Val Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Ser Ile Asp

20

25

30

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

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

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

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

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

<210> 186

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 186

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

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

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

Tyr Gly Ala Arg Asn 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 Ser
 65 70 75 80

Glu Asp Phe Gly Ser Tyr Phe Cys Gln His Phe Trp Asp Thr Thr Phe

85

90

95

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

<210> 187

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 187

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

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His Ser
 20 25 30

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

Pro Lys Leu Leu Ile Tyr Leu Val Ser Lys Val Glu Ser Gly Val Pro
 50 55 60

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

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

Thr His Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 100 105 110

<210> 188

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 188

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

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

Asn Gly Asn Thr Phe Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

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

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

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

Arg

<210> 189

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 189

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

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

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

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

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

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

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

<210> 190

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 190

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

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Arg Ser Ser Pro Lys Pro Trp Ile Tyr
35 40 45

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

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

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

<210> 191
<211> 113
<212> PRT
<213> Artificial Sequence

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

<400> 191
Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15

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

Asp Gly Asn Thr Phe Leu Gln Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

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

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

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

Arg

<210> 192
<211> 113
<212> PRT
<213> Artificial Sequence

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

<400> 192
Ser Asp Val Val Arg Pro Thr Pro Leu Ser Leu Pro Val Ser Leu Gly

1	5	10	15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser	20	25	30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser	35	40	45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro	50	55	60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile	65	70	75
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser	85	90	95
Thr His Val Pro Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile	100	105	110

Lys

<210> 193
 <211> 113
 <212> PRT
 <213> Artificial Sequence

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

<400> 193
Asp Val Val Met Thr Gln Ile Pro Val Ser Leu Pro Val Thr Leu Gly
1 5 10 15

Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser	20	25	30
---	----	----	----

Asp Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser	35	40	45
---	----	----	----

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro

50

55

60

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

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

Thr His Val Pro Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 194

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 194

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

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

Asp Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60

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

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

Thr His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

100

105

110

Arg

<210> 195

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 195

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

Glu	Thr	Ile	Thr	Ile	Asn	Cys	Arg	Thr	Ser	Lys	Ser	Ile	Ser	Lys	Tyr
		20					25					30			

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

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

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

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

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

<210> 196

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 196

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

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

Asn Gly Asn Thr Phe Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

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

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

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

Arg

<210> 197

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 197

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

Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Asn Tyr Met
20 25 30

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

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Ala Glu
65 70 75 80

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

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

<210> 198

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 198

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

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

Asp Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

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

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

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

Arg

<210> 199

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 199

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

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

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

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Ala Glu
65 70 75 80

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

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

<210> 200

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 200

Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly

1	5	10	15
Glu Lys Val	Ala Leu Asn Cys Lys	Ser Ser Gln Ser	Leu Leu Tyr Ser
	20	25	30
Ile Asn Gln	Lys Asn Tyr Leu	Ala Trp Tyr Gln	Arg Asn Pro Gly Gln
	35	40	45
Ser Pro Lys	Leu Leu Ile Tyr	Trp Ala Ser Thr	Arg Glu Ser Gly Val
	50	55	60
Pro Asp Arg	Phe Thr Gly Ser	Gly Ser Gly Thr	Asp Phe Thr Leu Thr
65	70	75	80
Ile Ser Ser	Val Lys Thr Glu	Asp Leu Ala Val	Tyr Tyr Cys Gln Gln
	85	90	95
Tyr Tyr Ser	Tyr Pro Trp Thr	Phe Gly Gly Gly	Thr Lys Leu Glu Ile
	100	105	110

Lys

<210> 201
 <211> 107
 <212> PRT
 <213> Artificial Sequence

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

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

Glu Lys Val	Thr Met Thr Cys	Ser Ala Ser Ser	Ser Val Ser Tyr Met
	20	25	30

Tyr Trp Tyr	Gln Gln Lys Pro	Arg Ser Ser Pro	Lys Pro Trp Ile Tyr
	35	40	45

Leu Thr Ser Asn Leu Ala Ala Gly Val Pro Ala Arg Phe Ser Gly Ser

50

55

60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

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

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

<210> 202

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 202

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

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

Gly Asn Ser Phe Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
50 55 60

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

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

Glu Asp Pro Trp Thr Phe Gly Gly Gly Thr Lys
100 105

<210> 203

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

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 203

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

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

His Trp Phe Gln Gln Lys Pro Gly Ser Ser Pro Lys Phe Trp Ile Tyr
35 40 45

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Ala Glu
65 70 75 80

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

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

<210> 204
<211> 106
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 204

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

Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Asn Tyr Met
20 25 30

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

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Ala Glu
65 70 75 80

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

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

<210> 205

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 205

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

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

Gly Asp Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Gly Ala Ser Asn Leu Glu Ser Gly Ile Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
65 70 75 80

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

Glu Asp Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 206

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 206

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

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

Gly Asp Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Glu Ser Gly Ile Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
65 70 75 80

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

Glu Asp Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 207

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 207

Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala

1	5	10	15
Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr	20	25	30
Tyr Met Asn Trp Val Lys Gln Ser Pro Glu Lys Ser Leu Glu Trp Ile	35	40	45
Gly Glu Ile Asn Pro Ser Thr Gly Gly Thr Thr Tyr Asn Gln Lys Phe	50	55	60
Gln Ala Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr	65	70	75
Met Gln Leu Lys Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys	85	90	95
Ser Arg Gly Glu Asp Asp Gly Tyr Phe Pro Tyr Ser Met Asp Phe Trp	100	105	110
Gly Gln Gly Ala Ser Val Thr Val Ser Ser	115	120	

<210> 208
 <211> 118
 <212> PRT
 <213> Artificial Sequence

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

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

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

Gly Ser Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu
 35 40 45

Trp Met Gly Tyr Ile His Asn Ser Gly Ser Thr Thr Tyr Asn Pro Ser

50

55

60

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

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

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

Leu Val Thr Val Ser Ala
115

<210> 209

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 209

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

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

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

Gly Glu Ile Phe Pro Gly Thr Gly Thr Thr Tyr Tyr Asn Glu Lys Phe
50 55 60

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

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

Ala Arg Arg Gly Val Phe Gly Asn Tyr Ala Met Asp Tyr Trp Gly Gln

100

105

110

Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 210

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 210

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

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

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

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

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

Met Gln Leu Ser Ser Leu Thr Ser Asp Gly Ser Ala Val Tyr Tyr Cys
 85 90 95

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

Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 211

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 211

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

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

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

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

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

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

Tyr Cys Ala Ser Ser Lys Pro Gly Trp Pro Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 212

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 212

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

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

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

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

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

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

Ser Arg Gly Glu Asp Asp Gly Tyr Phe Pro Tyr Ser Met Asp Phe Trp
100 105 110

Gly Gln Gly Ala Ser Val Thr Val Ser Ser
115 120

<210> 213

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 213

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

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

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

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

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

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

Ser Arg Glu Tyr Asp Phe Asp Gly Glu Phe Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Leu Thr Val Ser Ser
115 120

<210> 214

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 214

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

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

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

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

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

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

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

Gly Thr Thr Val Thr Val Ser Ser
115 120

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

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

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

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

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

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

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

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

Thr Arg Trp Gly Asn Tyr Gly Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 216
<211> 107
<212> PRT
<213> Artificial Sequence

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

<400> 216
Asp Ile Val Leu Ile Gln Ser Pro Ala Thr Leu Ser Val Thr Pro Gly

1	5	10	15
Asp Ser Val Ser Leu Ser Cys Arg Ala Ser Gln Ser Ile Asn Asn Asn	20	25	30
Leu His Trp Tyr Gln Gln Lys Ser His Glu Ser Pro Arg Leu Leu Ile	35	40	45
Lys Tyr Val Ser Gln Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly	50	55	60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Ser Val Glu Thr	65	70	75
Glu Asp Phe Gly Met Tyr Phe Cys Gln Gln Ser Asn Ser Trp Pro Leu	85	90	95
Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys	100	105	

<210> 217

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 217

Asn Ile Val Leu Thr Gln Ser Pro Gly Ser Leu Ala Val Ser Leu Gly	1	5	10	15
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Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Glu Ser Val Asp Asn Tyr	20	25	30
---	----	----	----

Gly Asn Ser Phe Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro	35	40	45
---	----	----	----

Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser Gly Val Pro Ala	50	55	60
---	----	----	----

Arg Phe Ser Gly Ser Gly Ser Arg Thr Asp Phe Thr Leu Thr Ile Asp

65		70		75		80									
Pro	Val	Glu	Ala	Asp	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Asn	Asn
				85					90					95	

Glu	Asp	Pro	Thr	Phe	Gly	Ser	Gly	Thr	Lys	Leu	Glu	Met	Lys
			100					105					110

<210> 218
 <211> 107
 <212> PRT
 <213> Artificial Sequence

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

<400> 218															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ser	Val	Ser	Val	Gly
1				5					10					15	

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

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

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

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

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

<210> 219
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 219

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

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

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

Tyr Ala Ala Thr Asn 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 Ser
65 70 75 80

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

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

<210> 220

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 220

Asp Leu Lys Met Thr Gln Ser Pro Ser Ser Met Tyr Ala Ser Leu Gly
1 5 10 15

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

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

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

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

Glu Asp Met Gly Ile Tyr Tyr Cys Leu Gln Ser Asp Glu Phe Pro Tyr
85 90 95

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

<210> 221

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 221

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

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

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

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

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

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

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

<210> 222
<211> 107
<212> PRT
<213> Artificial Sequence

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

<400> 222
Asp Ile Val Leu Ile Gln Ser Pro Ala Thr Leu Ser Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

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

<210> 223
<211> 113
<212> PRT
<213> Artificial Sequence

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

<400> 223
Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15

Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser

20

25

30

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

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60

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

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

Arg His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg

<210> 224

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 224

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

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

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

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

Ser Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Tyr

65		70		75		80									
Glu	Asp	Met	Gly	Ile	Tyr	Tyr	Cys	Leu	Gln	Ser	Asp	Glu	Phe	Pro	Tyr
			85						90					95	

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

<210> 225
 <211> 105
 <212> PRT
 <213> Artificial Sequence

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

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

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

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

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

Gly	Ser	Gly	Thr	Phe	Tyr	Ser	Leu	Thr	Ile	Ile	Ser	Val	Glu	Ala	Glu
65					70				75						80

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

Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys
		100						105

<210> 226
 <211> 100
 <212> PRT
 <213> Tursiops truncatus

<400> 226

Ala Gln Lys Val Thr Gln Val Gln Arg Ala Met Ser Ser Gln Leu Gly
1 5 10 15

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

Asp Ile Phe Trp Tyr Lys Gln Leu Pro Ser Gly Glu Met Thr Phe Leu
35 40 45

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

Val Asn Phe Gln Glu Arg His Lys Phe Ile Ser Leu Thr Ile Ser Ala
65 70 75 80

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

Val Arg Gly Leu
100

<210> 227

<211> 11

<212> PRT

<213> Homo sapiens

<400> 227

Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val
1 5 10