

SEQUENCE LISTING

<110> ±±¾@Ö¾μÀÉúîî¿Æ¼¼ÓĐİĐ¹«Ë¾

<120> °x½éËø-2ÑÜÉúîî

<160> 146

<170> PatentIn version 3.5

<210> 1

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1

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

Leu	Leu	Leu	Asp	Leu	Gln	Met	Ile	Leu	Asn	Gly	Ile	Asn	Asn	Tyr	Lys
			20					25					30		

Asn	Pro	Lys	Leu	Thr	Arg	Met	Leu	Thr	Phe	Lys	Phe	Tyr	Met	Pro	Lys
		35					40					45			

Lys	Ala	Thr	Glu	Leu	Lys	His	Leu	Gln	Cys	Leu	Glu	Glu	Glu	Leu	Lys
	50					55					60				

Pro	Leu	Glu	Glu	Val	Leu	Asn	Leu	Ala	Gln	Ser	Lys	Asn	Phe	His	Leu
65					70					75					80

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

Lys	Gly	Ser	Glu	Thr	Thr	Phe	Met	Cys	Glu	Tyr	Ala	Asp	Glu	Thr	Ala
			100					105					110		

Thr	Ile	Val	Glu	Phe	Leu	Asn	Arg	Trp	Ile	Thr	Phe	Cys	Gln	Ser	Ile
		115					120					125			

Ile	Ser	Thr	Leu	Thr
				130

<210> 2

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

<400> 2

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 3
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 3

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys

20

25

30

Asn Pro Lys Leu Thr Arg Cys Leu Thr Phe Lys Phe Tyr Met Pro Lys
 35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
 50 55 60

Pro Leu Glu Glu Cys Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
 65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
 100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
 115 120 125

Ile Ser Thr Leu Thr
 130

<210> 4
 <211> 133
 <212> PRT
 <213> Artificial Sequence

<400> 4

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
 20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Cys Tyr Met Pro Lys
 35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Cys Leu Lys
 50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 5
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 5

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Cys Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Cys Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 6
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 6

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Cys Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Cys Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 7
<211> 133

<212> PRT
<213> Artificial Sequence

<400> 7

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Cys Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Cys Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 8
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 8

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Cys Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Cys Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 9
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 9

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Cys Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu

65		70		75		80									
Arg	Pro	Arg	Asp	Leu	Ile	Ser	Asn	Ile	Asn	Val	Ile	Val	Leu	Glu	Leu
				85					90					95	

Lys	Gly	Ser	Glu	Thr	Thr	Phe	Met	Cys	Glu	Tyr	Ala	Asp	Glu	Cys	Ala
			100					105					110		

Thr	Ile	Val	Glu	Phe	Leu	Asn	Arg	Trp	Ile	Thr	Phe	Ala	Gln	Ser	Ile
		115					120					125			

Ile	Ser	Thr	Leu	Thr
			130	

<210> 10
 <211> 133
 <212> PRT
 <213> Artificial Sequence

<400> 10

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

Leu	Leu	Leu	Asp	Leu	Gln	Met	Ile	Leu	Asn	Gly	Ile	Asn	Asn	Tyr	Lys
			20					25					30		

Asn	Pro	Lys	Leu	Thr	Arg	Met	Leu	Thr	Cys	Lys	Phe	Tyr	Met	Pro	Lys
		35					40					45			

Lys	Ala	Thr	Glu	Leu	Lys	His	Leu	Gln	Cys	Leu	Glu	Glu	Glu	Leu	Lys
	50					55					60				

Pro	Leu	Glu	Glu	Val	Leu	Asn	Leu	Ala	Gln	Ser	Lys	Asn	Phe	His	Leu
65					70					75					80

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

Lys	Gly	Ser	Glu	Thr	Thr	Phe	Met	Cys	Glu	Tyr	Ala	Asp	Glu	Thr	Cys
			100					105					110		

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 11
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 11

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Cys Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Cys Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 12
<211> 133
<212> PRT

<213> Artificial Sequence

<400> 12

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Cys Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Cys
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 13

<211> 133

<212> PRT

<213> Artificial Sequence

<400> 13

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Cys Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Cys
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

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

<400> 14

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Cys Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Cys Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

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

<400> 15

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Cys Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Cys Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile

115

120

125

Ile Ser Thr Leu Thr
130

<210> 16

<211> 133

<212> PRT

<213> Artificial Sequence

<400> 16

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Cys Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Cys Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 17

<211> 133

<212> PRT

<213> Artificial Sequence

<400> 17

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Cys Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Cys Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 18

<211> 133

<212> PRT

<213> Artificial Sequence

<400> 18

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Cys Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Cys Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 19
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 19

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Cys Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Cys Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 20
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 20

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Cys Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Cys Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 21
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 21

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Cys Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Cys Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 22
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 22

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Cys Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Cys Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 23

<211> 133

<212> PRT

<213> Artificial Sequence

<400> 23

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Cys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys

35

40

45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
 50 55 60

Pro Leu Glu Glu Cys Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
 65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
 100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
 115 120 125

Ile Ser Thr Leu Thr
 130

<210> 24

<211> 133

<212> PRT

<213> Artificial Sequence

<400> 24

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
 20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Cys Phe Tyr Met Pro Lys
 35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
 50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
 65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Cys
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 25
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 25

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 26
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 26

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Cys Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 27
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 27

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Cys Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 28
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 28

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Cys Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 29
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 29

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Cys Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys

50

55

60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 30

<211> 133

<212> PRT

<213> Artificial Sequence

<400> 30

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Cys Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 31
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 31

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Cys Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Cys Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 32
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 32

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Cys Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 33
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 33

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Cys Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 34

<211> 133

<212> PRT

<213> Artificial Sequence

<400> 34

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Cys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 35
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 35

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Cys Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala

100

105

110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
 115 120 125

Ile Ser Thr Leu Thr
 130

<210> 36

<211> 133

<212> PRT

<213> Artificial Sequence

<400> 36

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
 20 25 30

Asn Pro Lys Leu Thr Cys Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
 35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
 50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
 65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
 100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
 115 120 125

Ile Ser Thr Leu Thr
 130

<210> 37
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 37

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Cys Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 38
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 38

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Cys Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 39
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 39

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Cys Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 40
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 40

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Cys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 41
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 41

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Cys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 42

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

<400> 42

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Cys Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 43
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 43

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys

20

25

30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Cys Phe Tyr Met Pro Lys
 35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
 50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
 65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
 100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
 115 120 125

Ile Ser Thr Leu Thr
 130

<210> 44
 <211> 133
 <212> PRT
 <213> Artificial Sequence

<400> 44

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
 20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
 35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Cys Glu Leu Lys
 50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 45
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 45

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Cys Leu Lys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 46
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 46

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Cys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 47
<211> 133

<212> PRT
<213> Artificial Sequence

<400> 47

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Cys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 48
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 48

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Cys
50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
65 70 75 80

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

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Ala Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 49
<211> 133
<212> PRT
<213> Artificial Sequence

<400> 49

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

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
50 55 60

Cys Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu

65		70		75		80									
Arg	Pro	Arg	Asp	Leu	Ile	Ser	Asn	Ile	Asn	Val	Ile	Val	Leu	Glu	Leu
				85					90					95	
Lys	Gly	Ser	Glu	Thr	Thr	Phe	Met	Cys	Glu	Tyr	Ala	Asp	Glu	Thr	Ala
			100					105					110		
Thr	Ile	Val	Glu	Phe	Leu	Asn	Arg	Trp	Ile	Thr	Phe	Ala	Gln	Ser	Ile
		115					120					125			
Ile	Ser	Thr	Leu	Thr											
			130												
<210>	50														
<211>	165														
<212>	PRT														
<213>	Artificial Sequence														
<400>	50														
Glu	Leu	Cys	Asp	Asp	Asp	Pro	Pro	Glu	Ile	Pro	His	Ala	Thr	Phe	Lys
1				5					10					15	
Ala	Met	Ala	Tyr	Lys	Glu	Gly	Thr	Met	Leu	Cys	Cys	Glu	Cys	Lys	Arg
			20					25					30		
Gly	Phe	Arg	Arg	Ile	Lys	Ser	Gly	Ser	Leu	Tyr	Met	Leu	Cys	Thr	Gly
		35					40					45			
Asn	Ser	Ser	His	Ser	Ser	Trp	Asp	Asn	Gln	Cys	Gln	Cys	Thr	Ser	Ser
		50				55					60				
Ala	Thr	Arg	Asn	Thr	Thr	Lys	Gln	Val	Thr	Pro	Gln	Pro	Glu	Glu	Gln
65					70					75					80
Lys	Glu	Arg	Lys	Thr	Thr	Glu	Met	Gln	Ser	Pro	Met	Gln	Pro	Val	Asp
			85						90					95	
Gln	Ala	Ser	Leu	Pro	Gly	His	Cys	Arg	Glu	Pro	Pro	Pro	Trp	Glu	Asn
			100					105					110		

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 51
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 51

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 52
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 52

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Cys Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 53
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 53

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Cys Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln

145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 54
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 54

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr Cys Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 55
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 55

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

Ala Met Ala Tyr Lys Glu Gly Thr Cys Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 56
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 56

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Cys Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 57
<211> 165

<212> PRT
<213> Artificial Sequence

<400> 57

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Cys Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 58
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 58

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 59

<211> 165

<212> PRT

<213> Artificial Sequence

<400> 59

Glu Leu Cys Cys Asp Asp Pro Pro Glu Ile Pro His Ala Thr Phe Lys

1	5	10	15
Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg	20	25	30
Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly	35	40	45
Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser	50	55	60
Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln	65	70	75
Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp	85	90	95
Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn	100	105	110
Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr	115	120	125
Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu	130	135	140
Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln	145	150	155
Leu Ile Cys Thr Gly	165		

<210> 60
 <211> 165
 <212> PRT
 <213> Artificial Sequence

<400> 60

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 61

<211> 165

<212> PRT

<213> Artificial Sequence

<400> 61

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 62
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 62

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Cys Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 63
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 63

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser

50

55

60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Cys His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 64

<211> 165

<212> PRT

<213> Artificial Sequence

<400> 64

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Cys Arg Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 65
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 65

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Cys Ile Lys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 66
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 66

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Cys Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 67
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 67

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Ser Cys Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn

100

105

110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
 115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
 130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
 145 150 155 160

Leu Ile Cys Thr Gly
 165

<210> 68

<211> 165

<212> PRT

<213> Artificial Sequence

<400> 68

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
 20 25 30

Gly Phe Arg Arg Ile Cys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
 35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
 50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
 65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
 85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
 100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 69

<211> 165

<212> PRT

<213> Artificial Sequence

<400> 69

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Cys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 70
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 70

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Cys Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 71
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 71

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Cys Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln

145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 72
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 72

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Lys Ser Gly Cys Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 73
<211> 165
<212> PRT
<213> Artificial Sequence

<400> 73

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

Ala Met Ala Tyr Lys Glu Gly Thr Met Leu Asn Cys Glu Cys Lys Arg
20 25 30

Gly Phe Arg Arg Ile Cys Ser Gly Ser Leu Tyr Met Leu Cys Thr Gly
35 40 45

Asn Ser Ser His Ser Ser Trp Asp Asn Gln Cys Gln Cys Thr Ser Ser
50 55 60

Ala Thr Arg Asn Thr Thr Lys Gln Val Thr Pro Gln Pro Glu Glu Gln
65 70 75 80

Lys Glu Arg Lys Thr Thr Glu Met Gln Ser Pro Met Gln Pro Val Asp
85 90 95

Gln Ala Ser Leu Pro Gly His Cys Arg Glu Pro Pro Pro Trp Glu Asn
100 105 110

Glu Ala Thr Glu Arg Ile Tyr His Phe Val Val Gly Gln Met Val Tyr
115 120 125

Tyr Gln Cys Val Gln Gly Tyr Arg Ala Leu His Arg Gly Pro Ala Glu
130 135 140

Ser Val Cys Lys Met Thr His Gly Lys Thr Arg Trp Thr Gln Pro Gln
145 150 155 160

Leu Ile Cys Thr Gly
165

<210> 74
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 74
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 75
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 75
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagatgcctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agagtgtctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 76
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 76
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt gctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180

gagtgtctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 77
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 77	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
accttcaagt gctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agtgtctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 78
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 78	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
acctgcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agagtgtctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 79
 <211> 399

<212> DNA
<213> Artificial Sequence

<400> 79
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
tgcgagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accacattca tgtgcgagtg tgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 80
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 80
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
acctgcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agtgtctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accacattca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 81
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 81
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
acctgcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240

aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag tgtgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 82
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 82	
gccccacaa gtcccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
acctgcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag acctgtacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 83
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 83	
gccccacaa gtcccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
acctgcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgcctgta tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 84
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 84
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
tgcttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag acctgtacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 85
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 85
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgtgc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag acctgtacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 86
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 86
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgtgc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgcctgta tcgtggagtt tctgaataga 360

tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 87

<211> 399

<212> DNA

<213> Artificial Sequence

<400> 87

gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60

ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgtgc 120

accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180

gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240

aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300

accacattca tgtgcgagta cgccgatgag accgccacct gtgtggagtt tctgaataga 360

tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 88

<211> 399

<212> DNA

<213> Artificial Sequence

<400> 88

gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60

ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagatgcctc 120

accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180

gaggagctga agcctctgga agaggtgctg aattgtgccc agtccaagaa cttccatctg 240

aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300

accacattca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360

tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 89

<211> 399

<212> DNA

<213> Artificial Sequence

<400> 89

gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60

ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagatgcctc	120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctgtgtc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 90
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 90	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac atgcatgctc	120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agagtgtctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 91
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 91	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac atgcatgctc	120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aattgtgccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 92
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 92
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagtgcac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agagtgtctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 93
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 93
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagtgcac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agagggtgctg aattgtgccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 94
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 94
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagtgcac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180

gaggagctga agcctctgga agaggtgctg aatctgtgtc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 95
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 95	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc cctgcctgac aagaatgctc	120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agagtgtctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 96
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 96	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
accttctgct tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag acctgtacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 97
 <211> 399

<212> DNA
<213> Artificial Sequence

<400> 97
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
tgcttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 98
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 98
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatt gcaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 99
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 99
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga atgctgctg aatctggccc agtccaagaa cttccatctg 240

aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 100
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 100	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
accttcaagt tctgcatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 101
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 101	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac atgcatgctc	120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 102
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 102
 gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
 ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
 accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
 gaggagctga agcctctgga agaggtgctg aattgcgccc agtccaagaa cttccatctg 240
 aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
 accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
 tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 103
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 103
 gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
 ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
 accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
 tgcgagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
 aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
 accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
 tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 104
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 104
 gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
 ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
 tgcttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
 gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
 aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
 accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360

tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 105

<211> 399

<212> DNA

<213> Artificial Sequence

<400> 105

gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60

ctccagatga ttctgaacgg catcaacaac tacaagaatc cctgcctgac aagaatgctc 120

accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180

gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240

aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300

accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360

tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 106

<211> 399

<212> DNA

<213> Artificial Sequence

<400> 106

gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60

ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgtg cagaatgctc 120

accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180

gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240

aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300

accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360

tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 107

<211> 399

<212> DNA

<213> Artificial Sequence

<400> 107

gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60

ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac atgcatgctc	120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 108
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 108	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac atgcatgctc	120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 109
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 109	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
tgcttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 110
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 110
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
tgcttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agagggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 111
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 111
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttctgct tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agcctctgga agagggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 112
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 112
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttctgct tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180

gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 113
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 113	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
accttcaagt gttacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 114
 <211> 399
 <212> DNA
 <213> Artificial Sequence

<400> 114	
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
accttctgct tttacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tcgcccagag catcatcagc acactgacc	399

<210> 115
 <211> 399

<212> DNA
<213> Artificial Sequence

<400> 115
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
tgcgagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 116
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 116
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gagtgccctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 117
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 117
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctgt gccctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240

aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 118
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 118
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctgt gccctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 119
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 119
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctgt gccctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 120
<211> 399
<212> DNA
<213> Artificial Sequence

<400> 120
gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac 60
ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc 120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag 180
gaggagctga agtgcctgga agaggtgctg aatctggccc agtccaagaa cttccatctg 240
aggcctagag atctgatcag caacatcaac gtcacgtgc tggagctgaa gggcagcgag 300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga 360
tggatcacct tcgcccagag catcatcagc acactgacc 399

<210> 121
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 121
gagctctgcg acgatgatcc ccccgaatc cccacgcc cattcaaggc catggcctac 60
aaggagggaa ccatgctctg ttgagtgatgc aagaggggat ttaggaggat caagagcggc 120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga cccccagcc cgaggagcaa 240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg 300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac 360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga 420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaacccag 480
ctgatttgta ccggc 495

<210> 122
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 122
gagctctgct gtgatgatcc ccccgaatc cccacgcc cattcaaggc catggcctac 60
aaggagggaa ccatgctcaa ctgagtgatgc aagaggggat ttaggaggat caagagcggc 120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga cccccagcc cgaggagcaa 240

aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 123
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 123	
gagctctgcg acgatgatcc ccccgaatc cccacgcc cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc	120
tcttgttaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga cccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 124
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 124	
gagctctgcg acgatgatcc ccccgaatc cccacgcc cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat tttgtaggat caagagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga cccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360

tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 125
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 125	
gagctctgcg acgatgatcc ccccgaaatc cccacgcc cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctactgt	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 126
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 126	
gagctctgcg acgatgatcc ccccgaaatc cccacgcc cattcaaggc catggcctac	60
aaggagggaa cctgtctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480

ctgatttgta ccggc 495

<210> 127
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 127
gagctctgcg acgatgatcc ccccgaaatc ccccacgcc cattcaaggc catggcctac 60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagtgtggc 120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa 240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg 300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac 360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga 420
ggccccgccg agagcgtctg caaatgaca cacggcaaga caagatggac ccaaccccag 480
ctgatttgta ccggc 495

<210> 128
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 128
gagctctgcg acgatgatcc ccccgaaatc ccccacgcc cattcaaggc catggcctac 60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc 120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa 240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg 300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gtgttaccac 360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga 420
ggccccgccg agagcgtctg caaatgaca cacggcaaga caagatggac ccaaccccag 480
ctgatttgta ccggc 495

<210> 129
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 129
gagctctgct gtgatgatcc ccccgaaatc ccccacgcca cattcaaggc catggcctac 60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc 120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa 240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg 300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac 360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga 420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag 480
ctgatttgta ccggc 495

<210> 130
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 130
gagctctgct gtgatgatcc ccccgaaatc ccccacgcca cattcaaggc catggcctac 60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc 120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa 240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg 300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac 360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga 420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag 480
ctgatttgta ccggc 495

<210> 131
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 131
gagctctgct gtgatgatcc ccccgaaatc ccccacgcca cattcaaggc catggcctac 60
aaggagggaa ccatgtctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc 120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa 240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg 300
cccgccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac 360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga 420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag 480
ctgatttgta ccggc 495

<210> 132
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 132
gagctctgcg actgtgatcc ccccgaaatc ccccacgcca cattcaaggc catggcctac 60
aaggagggaa ccatgtctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc 120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa 240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg 300
cccgccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac 360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga 420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag 480
ctgatttgta ccggc 495

<210> 133
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 133
gagctctgcg acgatgatcc ccccgaaatc ccccacgcca cattcaaggc catggcctac 60

aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc	120
tcttgttaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga cccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 134
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 134	
gagctctgcg acgatgatcc ccccgaaatc cccacgccca cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga cccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctgtcac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 135
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 135	
gagctctgcg acgatgatcc ccccgaaatc cccacgccca cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat tttgtaggat caagagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180

tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 136
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 136	
gagctctgcg acgatgatcc ccccgaaatc ccccacgcca cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggtgtat caagagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 137
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 137	
gagctctgcg acgatgatcc ccccgaaatc ccccacgcca cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc	120
tcttgttaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300

cccgccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 138
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 138	
gagctctgcg acgatgatcc ccccgaaatc ccccacgcca cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc	120
tcttgttaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccgccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 139
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 139	
gagctctgcg acgatgatcc ccccgaaatc ccccacgcca cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat ctgtagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccgccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420

ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 140
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 140	
gagctctgcg acgatgatcc ccccgaaatc ccccacgcc cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat ctgtagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 141
 <211> 495
 <212> DNA
 <213> Artificial Sequence

<400> 141	
gagctctgcg acgatgatcc ccccgaaatc ccccacgcc cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagtgtggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaaccccag	480
ctgatttgta ccggc	495

<210> 142
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 142
gagctctgcg acgatgatcc ccccgaatc cccacgcca cattcaaggc catggcctac 60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagctgt 120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa 240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg 300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac 360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga 420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaacccag 480
ctgatttgta ccggc 495

<210> 143
<211> 495
<212> DNA
<213> Artificial Sequence

<400> 143
gagctctgcg acgatgatcc ccccgaatc cccacgcca cattcaaggc catggcctac 60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc 120
tgtctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag 180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa 240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg 300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac 360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga 420
ggccccgccg agagcgtctg caaaatgaca cacggcaaga caagatggac ccaacccag 480
ctgatttgta ccggc 495

<210> 144
<211> 495
<212> DNA

<213> Artificial Sequence

<400> 144

gagctctgcg acgatgatcc ccccgaatc cccacgcc cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat ctgtagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaatgaca cacggcaaga caagatggac ccaacccag	480
ctgatttgta ccggc	495

<210> 145

<211> 495

<212> DNA

<213> Artificial Sequence

<400> 145

gagctctgcg acgatgatcc ccccgaatc cccacgcc cattcaaggc catggcctac	60
aaggagggaa ccatgctcaa ctgcgagtgc aagaggggat ttaggaggat caagagcggc	120
tctctgtaca tgctgtgcac cggcaacagc agccacagca gctgggataa tcagtgccag	180
tgcaccagca gcgctacaag aaacaccaca aaacaagtga ccccccagcc cgaggagcaa	240
aaggaaagaa agaccaccga aatgcagtcc cccatgcagc ccgtggatca agcctctctg	300
cccggccact gtagagagcc ccctccttgg gaaaatgagg ccacagagag gatctaccac	360
tttgtggtgg gacagatggt ctactaccag tgtgtccaag gctatagagc tctccacaga	420
ggccccgccg agagcgtctg caaatgaca cacggcaaga caagatggac ccaacccag	480
ctgatttgta ccggc	495

<210> 146

<211> 399

<212> DNA

<213> Artificial Sequence

<400> 146

gccccacaa gctccagcac caagaagaca cagctgcagc tggaacatct gctgctggac	60
--	----

ctccagatga ttctgaacgg catcaacaac tacaagaatc ccaagctgac aagaatgctc	120
accttcaagt tctacatgcc caagaaggcc accgagctga agcatctgca gtgtctggag	180
gaggagctga agcctctgga agaggtgctg aatctggccc agtccaagaa cttccatctg	240
aggcctagag atctgatcag caacatcaac gtcatcgtgc tggagctgaa gggcagcgag	300
accaccttca tgtgcgagta cgccgatgag accgccacca tcgtggagtt tctgaataga	360
tggatcacct tctgccagag catcatcagc acactgacc	399