

SEQUENCE LISTING

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<120> ANTI-TREM2 ANTIBODIES AND METHODS OF USE
 THEREOF

<130> 735022000940

<140> Not Yet Assigned
 <141> Concurrently Herewith

<150> US 62/238,044
 <151> 2015-10-06

<150> US 62/369,666
 <151> 2016-08-01

<160> 888

<170> FastSEQ for windows Version 4.0

<210> 1
 <211> 230
 <212> PRT
 <213> Homo sapiens

<400> 1
 Met Glu Pro Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser
 1 5 10 15
 Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu
 20 25 30
 Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys
 35 40 45
 Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val
 50 55 60
 Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly
 65 70 75 80
 Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr
 85 90 95
 Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser
 100 105 110
 Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val
 115 120 125
 Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro
 130 135 140
 Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser
 145 150 155 160
 Arg Ser Leu Leu Glu Gly Glu Ile Pro Phe Pro Pro Thr Ser Ile Leu
 165 170 175
 Leu Leu Leu Ala Cys Ile Phe Leu Ile Lys Ile Leu Ala Ala Ser Ala
 180 185 190
 Leu Trp Ala Ala Ala Trp His Gly Gln Lys Pro Gly Thr His Pro Pro
 195 200 205
 Ser Glu Leu Asp Cys Gly His Asp Pro Gly Tyr Gln Leu Gln Thr Leu
 210 215 220
 Pro Gly Leu Arg Asp Thr
 225 230

<210> 2

<211> 227
 <212> PRT
 <213> Mus musculus

<400> 2
 Met Gly Pro Leu His Gln Phe Leu Leu Leu Leu Ile Thr Ala Leu Ser
 1 5 10 15
 Gln Ala Leu Asn Thr Thr Val Leu Gln Gly Met Ala Gly Gln Ser Leu
 20 25 30
 Arg Val Ser Cys Thr Tyr Asp Ala Leu Lys His Trp Gly Arg Arg Lys
 35 40 45
 Ala Trp Cys Arg Gln Leu Gly Glu Glu Gly Pro Cys Gln Arg Val Val
 50 55 60
 Ser Thr His Gly Val Trp Leu Leu Ala Phe Leu Lys Lys Arg Asn Gly
 65 70 75 80
 Ser Thr Val Ile Ala Asp Asp Thr Leu Ala Gly Thr Val Thr Ile Thr
 85 90 95
 Leu Lys Asn Leu Gln Ala Gly Asp Ala Gly Leu Tyr Gln Cys Gln Ser
 100 105 110
 Leu Arg Gly Arg Glu Ala Glu Val Leu Gln Lys Val Leu Val Glu Val
 115 120 125
 Leu Glu Asp Pro Leu Asp Asp Gln Asp Ala Gly Asp Leu Trp Val Pro
 130 135 140
 Glu Glu Ser Ser Ser Phe Glu Gly Ala Gln Val Glu His Ser Thr Ser
 145 150 155 160
 Arg Asn Gln Glu Thr Ser Phe Pro Pro Thr Ser Ile Leu Leu Leu Leu
 165 170 175
 Ala Cys Val Leu Leu Ser Lys Phe Leu Ala Ala Ser Ile Leu Trp Ala
 180 185 190
 Val Ala Arg Gly Arg Gln Lys Pro Gly Thr Pro Val Val Arg Gly Leu
 195 200 205
 Asp Cys Gly Gln Asp Ala Gly His Gln Leu Gln Ile Leu Thr Gly Pro
 210 215 220
 Gly Gly Thr
 225

<210> 3
 <211> 228
 <212> PRT
 <213> Rattus norvegicus

<400> 3
 Met Glu Pro Leu His Val Phe Val Leu Leu Leu Val Thr Glu Leu Ser
 1 5 10 15
 Gln Ala Leu Asn Thr Thr Val Leu Gln Gly Val Ala Gly Gln Ser Leu
 20 25 30
 Arg Val Ser Cys Thr Tyr Asp Ala Leu Arg His Trp Gly Arg Arg Lys
 35 40 45
 Ala Trp Cys Arg Gln Leu Ala Glu Glu Gly Pro Cys Gln Arg Val Val
 50 55 60
 Ser Thr His Gly Val Trp Leu Leu Ala Phe Leu Arg Lys Gln Asn Gly
 65 70 75 80
 Ser Thr Val Ile Thr Asp Asp Thr Leu Ala Gly Thr Val Thr Ile Thr
 85 90 95
 Leu Arg Asn Leu Gln Ala Gly Asp Ala Gly Leu Tyr Gln Cys Gln Ser
 100 105 110
 Leu Arg Gly Arg Glu Ala Glu Val Leu Gln Lys Val Val Val Glu Val
 115 120 125
 Leu Glu Asp Pro Leu Asp Asp Gln Asp Ala Gly Asp Leu Trp Val Pro
 130 135 140
 Glu Glu Ser Glu Ser Phe Glu Gly Ala Gln Val Glu His Ser Thr Ser
 145 150 155 160
 Ser Gln Val Ser Ser Cys Gly Ser Pro Leu Thr Tyr His Leu Pro Pro
 165 170 175
 Lys Glu Pro Ile Arg Lys Asp Leu Leu Pro Thr His Phe His Ser Ser
 180 185 190
 Pro Pro Gly Leu Cys Pro Pro Glu Gln Ala Ser Tyr Ser Gln His Pro

Leu Gly 195
 210 Cys Gly Gln Gly Gln 200
 Trp Ala Arg Leu 215 Ala Glu Ala Gly Asp 205
 225 Thr Cys Gly Gln

<210> 4
 <211> 260
 <212> PRT
 <213> Macaca mulatta

<400> 4
 Met Pro Asp Pro Leu Phe Ser Ala Val Gln Gly Lys Asp Lys Ile Leu
 1 5 10 15
 His Lys Ala Leu Cys Ile Cys Pro Trp Pro Gly Lys Gly Gly Met Glu
 20 25 30
 Pro Leu Arg Leu Leu Ile Leu Leu Phe Ala Thr Glu Leu Ser Gly Ala
 35 40 45
 His Asn Thr Thr Val Phe Gln Gly Val Glu Gly Gln Ser Leu Gln Val
 50 55 60
 Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys Ala Trp
 65 70 75 80
 Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val Ser Thr
 85 90 95
 His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Arg Asn Gly Ser Thr
 100 105 110
 Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr Leu Arg
 115 120 125
 Asn Leu Gln Pro His Asp Ala Gly Phe Tyr Gln Cys Gln Ser Leu His
 130 135 140
 Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val Leu Ala
 145 150 155 160
 Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Val Pro Gly Glu
 165 170 175
 Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser Arg Ser
 180 185 190
 Leu Leu Glu Gly Glu Ile Pro Phe Pro Thr Ser Val Leu Leu Leu
 195 200 205
 Leu Ala Cys Ile Phe Leu Ile Lys Ile Leu Ala Ala Ser Ala Leu Trp
 210 215 220
 Ala Ala Ala Trp His Gly Gln Lys Pro Gly Thr His Pro Pro Ser Glu
 225 230 235 240
 Pro Asp Cys Gly His Asp Pro Gly His Gln Leu Gln Thr Leu Pro Gly
 245 250 255
 Leu Arg Asp Thr
 260

<210> 5
 <211> 230
 <212> PRT
 <213> Bos taurus

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

Leu	His	Gly	100	Ser	Glu	Ala	Asp	Thr	105	Leu	Arg	Lys	Val	Leu	110	Val	Glu	Val
		115						120						125				
Leu	Ala	Asp	Pro	Arg	Asp	Tyr	Gln	Asp	Pro	Gly	Asp	Leu	Trp	Ile	Pro			
	130					135					140							
Glu	Gly	Ser	Glu	Ser	Phe	Glu	Asn	Ala	Gln	Val	Glu	His	Ser	Ile	Ser			
145					150					155					160			
Arg	Ser	Leu	Ser	Glu	Glu	Ser	Pro	Phe	Pro	Pro	Thr	Ser	Ile	Leu				
				165				170						175				
Phe	Leu	Leu	Ala	Cys	Ile	Phe	Leu	Ser	Lys	Leu	Leu	Ala	Ala	Ser	Ala			
			180					185						190				
Leu	Trp	Ala	Ala	Ala	Trp	His	Gly	Gln	Lys	Gln	Arg	Pro	Pro	Gln	Ala			
	195						200					205						
Ser	Gly	Pro	Asp	Cys	Gly	His	Asn	Pro	Gly	Tyr	Gln	Leu	Gln	Thr	Leu			
	210					215					220							
Thr	Glu	Leu	Arg	Asp	Val													
225					230													

<210> 6
 <211> 230
 <212> PRT
 <213> Equus caballus

Met	Glu	Pro	Leu	Pro	Leu	Leu	Ile	Leu	Leu	Ser	Val	Ala	Glu	Leu	Ser			
1				5				10						15				
Arg	Gly	His	Asn	Thr	Thr	Val	Phe	Gln	Gly	Thr	Ala	Gly	Arg	Ser	Leu			
			20					25					30					
Lys	Val	Ser	Cys	Pro	Tyr	Asn	Ser	Leu	Met	His	Trp	Gly	Arg	Arg	Lys			
		35				40						45						
Ala	Trp	Cys	Arg	Gln	Leu	Gly	Glu	Asp	Gly	Pro	Cys	Gln	Gln	Val	Val			
	50					55					60							
Ser	Thr	His	Ser	Leu	Trp	Leu	Leu	Ser	Phe	Leu	Lys	Arg	Arg	Asn	Gly			
65				70					75					80				
Ser	Thr	Val	Ile	Thr	Asp	Asp	Ala	Leu	Gly	Gly	Ile	Leu	Thr	Ile	Thr			
				85					90					95				
Leu	Arg	Asn	Leu	Gln	Ala	His	Asp	Ala	Gly	Phe	Tyr	Gln	Cys	Gln	Ser			
		100						105					110					
Leu	His	Gly	Gly	Glu	Ala	Asp	Thr	Leu	Arg	Lys	Val	Leu	Val	Glu	Val			
		115					120					125						
Leu	Ala	Asp	Pro	Leu	Asp	His	Gln	Glu	Pro	Gly	Asp	Leu	Trp	Ile	Pro			
	130					135					140							
Lys	Glu	Ser	Glu	Ser	Phe	Glu	Asp	Ala	Gln	Val	Glu	His	Ser	Ile	Ser			
145					150					155					160			
Arg	Ser	Leu	Val	Glu	Glu	Glu	Ile	Pro	Ser	Leu	Pro	Thr	Ser	Ile	Leu			
				165					170					175				
Leu	Leu	Leu	Ala	Cys	Ile	Phe	Leu	Ser	Lys	Leu	Leu	Ala	Ala	Ser	Ala			
			180					185					190					
Ile	Trp	Ala	Ala	Ala	Trp	His	Gly	Gln	Lys	Gln	Glu	Thr	Pro	Pro	Ala			
	195						200					205						
Ser	Glu	Pro	Asp	Arg	Gly	His	Asp	Pro	Gly	Tyr	Gln	Leu	His	Thr	Leu			
	210					215					220							
Thr	Gly	Glu	Arg	Asp	Thr													
225					230													

<210> 7
 <211> 233
 <212> PRT
 <213> Sus domesticus

Met	Glu	Thr	Leu	Gly	Leu	Leu	Leu	Leu	Leu	Trp	Val	Ala	Glu	Leu	Ser			
1				5				10						15				
Arg	Ala	His	Asn	Thr	Ser	Val	Phe	Gln	Gly	Thr	Ala	Gly	Gln	Ser	Leu			
			20					25					30					
Arg	Val	Ser	Cys	Ser	Tyr	Asn	Ser	Leu	Lys	His	Trp	Gly	Arg	Arg	Lys			

Ala	Trp	35	Cys	Arg	Gln	Leu	Ser	40	Glu	Glu	Gly	Leu	Cys	45	Gln	His	Val	Val
50							55						60					
Ser	Thr	His	Pro	Thr	Trp	Leu	Leu	Ser	Phe	Leu	Lys	Arg	Arg	Asn	Gly			
65					70					75					80			
Ser	Thr	Ala	Ile	Thr	Asp	Asp	Ala	Leu	Gly	Gly	Thr	Leu	Thr	Ile	Thr			
				85					90					95				
Leu	Arg	Asn	Leu	Gln	Ala	His	Asp	Ala	Gly	Leu	Tyr	Gln	Cys	Gln	Ser			
			100					105					110					
Leu	His	Gly	Ser	Glu	Ala	Asp	Thr	Leu	Lys	Lys	Val	Leu	Val	Glu	Val			
		115					120					125						
Leu	Ala	Asp	Pro	Leu	Glu	Ser	Gln	Ser	Lys	Ser	Phe	Gln	Asp	Val	Gln			
130						135					140							
Met	Glu	His	Ser	Ile	Ser	Arg	Asn	Leu	Ser	Glu	Glu	Ser	Leu	Phe	Pro			
145					150					155					160			
Pro	Thr	Ser	Thr	Leu	Phe	Leu	Leu	Ala	Cys	Val	Phe	Leu	Ser	Lys	Leu			
				165					170					175				
Leu	Val	Ala	Ser	Ala	Leu	Trp	Ala	Ala	Ala	Trp	His	Gly	His	Lys	Gln			
			180					185					190					
Arg	Thr	Ser	Pro	Ala	Gly	Gly	Leu	Asp	Cys	Gly	Arg	Asp	Pro	Gly	Asp			
		195					200					205						
Gln	Asp	Gln	Thr	Leu	Thr	Asp	Glu	Leu	Gly	Glu	Ser	Ser	Asp	Gln	Asp			
	210					215					220							
Gln	Thr	Leu	Thr	Glu	Leu	Arg	Asp	Thr										
225					230													

<210> 8

<211> 230

<212> PRT

<213> Canis familiaris

<400> 8

Met	Glu	Pro	Leu	Trp	Leu	Leu	Ile	Leu	Leu	Ala	Val	Thr	Glu	Leu	Ser			
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Gly	Ala	His	Asn	Thr	Thr	Val	Phe	Gln	Gly	Met	Ala	Gly	Arg	Ser	Leu			
			20					25				30						
Gln	Val	Ser	Cys	Pro	Tyr	Asn	Ser	Leu	Lys	His	Trp	Gly	Arg	Arg	Lys			
		35					40					45						
Ala	Trp	Cys	Arg	Gln	Val	Asp	Lys	Glu	Gly	Pro	Cys	Gln	Arg	Val	Val			
	50					55				60								
Ser	Thr	His	Arg	Ser	Trp	Leu	Leu	Ser	Phe	Leu	Lys	Arg	Trp	Asn	Gly			
65					70					75				80				
Ser	Thr	Ala	Ile	Val	Asp	Asp	Ala	Leu	Gly	Gly	Thr	Leu	Thr	Ile	Thr			
				85					90					95				
Leu	Arg	Asn	Leu	Gln	Ala	His	Asp	Ala	Gly	Leu	Tyr	Gln	Cys	Gln	Ser			
			100					105					110					
Leu	Tyr	Gly	Asp	Glu	Ala	Asp	Thr	Leu	Arg	Lys	Val	Leu	Val	Glu	Val			
		115					120					125						
Leu	Ala	Asp	Pro	Leu	Asp	His	Leu	Asp	Pro	Gly	Asp	Leu	Trp	Ile	Pro			
	130					135				140								
Glu	Glu	Ser	Lys	Gly	Phe	Glu	Asp	Ala	His	Val	Glu	Pro	Ser	Val	Ser			
145					150					155				160				
Arg	Ser	Leu	Ser	Glu	Glu	Ile	Pro	Phe	Pro	Pro	Thr	Ser	Ile	Leu				
				165				170					175					
Phe	Leu	Leu	Ala	Cys	Ile	Phe	Leu	Ser	Lys	Phe	Leu	Ala	Ala	Ser	Ala			
			180					185					190					
Leu	Trp	Ala	Ala	Ala	Trp	Arg	Gly	Gln	Lys	Leu	Gly	Thr	Pro	Gln	Ala			
		195					200					205						
Ser	Glu	Leu	Asp	Cys	Ser	Cys	Asp	Pro	Gly	Tyr	Gln	Leu	Gln	Thr	Leu			
	210					215					220							
Thr	Glu	Pro	Arg	Asp	Met													
225					230													

<210> 9

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 9

Arg Ala Ser Glu Asn Ile Tyr Ser Phe Leu Ala
1 5 10

<210> 10

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 10

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

<210> 11

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 11

Lys Ser Ser Gln Ser Leu Leu Tyr Ser Asn Gly Lys Thr Phe Leu Ser
1 5 10 15

<210> 12

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 12

Lys Ser Ser Gln Ser Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn
1 5 10 15

<210> 13

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 13

Ser Ala Ser Ser Ser Val Ser Tyr Met Tyr
1 5 10

<210> 14

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 14

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

<210> 15

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 15

Arg Ser Ser Gln Thr Ile Ile His Ser Asn Gly Asn Thr Tyr Leu Glu
1 5 10 15

<210> 16

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 16

Lys Ser Ser Gln Ser Leu Leu Tyr Ser Ser Asp Gln Lys Asn Tyr Leu
1 5 10 15
Ala

<210> 17

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 17

Arg Ala Ser Glu Asn Ile Tyr Ser Tyr Leu Ala
1 5 10

<210> 18

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 18

Arg Thr Ser Glu Asn Val Tyr Ser Asn Leu Ala
1 5 10

<210> 19

<211> 16

<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 19
Arg Ser Ser Gln Ser Leu Val His Ser Asn Gly Tyr Thr Tyr Leu His
1 5 10 15

<210> 20
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 20
Arg Phe Ser Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu His
1 5 10 15

<210> 21
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 21
Lys Ala Ser Ser Asn Val Asn Tyr Met Ser
1 5 10

<210> 22
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 22
Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Asn Gln Lys Lys Tyr Leu
1 5 10 15
Thr

<210> 23
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 23
Lys Ser Ser Gln Ser Leu Leu Tyr Ser Gly Asn Gln Lys Asn Phe Leu
1 5 10 15
Ala

<210> 24
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 24
Asn Ser Lys Thr Phe Ala Glu
1 5

<210> 25
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 25
Trp Ala Phe Thr Arg Glu Ser
1 5

<210> 26
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 26
Leu Val Ser Lys Leu Asp Ser
1 5

<210> 27
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 27
Leu Thr Ser Ile Leu Ala Ser
1 5

<210> 28
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 28
Lys Val Ser Asn Arg Phe Ser
1 5

<210> 29
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 29
Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 30
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 30
Lys Ala Lys Thr Leu Ala Glu
1 5

<210> 31
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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<400> 31
Ala Ala Thr Asn Leu Ala Asp
1 5

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

<220>
<223> Synthetic Construct

<400> 32
Phe Thr Ser Asn Leu Pro Ser
1 5

<210> 33
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 33
Lys Val Ser Asn Arg Phe Cys
1 5

<210> 34
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 34
Gln His His Tyr Gly Thr Pro Pro Trp Thr

1 5 10

<210> 35
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 35
Gln Gln Tyr Tyr Ser Tyr Pro Leu Thr
1 5

<210> 36
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 36
Met Gln Gly Thr His Phe Pro Leu Thr
1 5

<210> 37
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 37
Trp Gln Gly Thr His Phe Pro Tyr Thr
1 5

<210> 38
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 38
Gln Gln Trp Ser Phe Asn Pro Tyr Thr
1 5

<210> 39
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 39
Ser Gln Ser Thr His Val Pro Leu Thr
1 5

<210> 40
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 40
Phe Gln Gly Ser His Val Pro Tyr Thr
1 5

<210> 41
<211> 9
<212> PRT
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<220>
<223> Synthetic Construct

<400> 41
Gln His His Tyr Gly Thr Pro Phe Thr
1 5

<210> 42
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 42
His His Phe Trp Gly Thr Pro Tyr Thr
1 5

<210> 43
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 43
Ser Gln Ser Thr Arg Val Pro Tyr Thr
1 5

<210> 44
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 44
Ser Gln Ser Thr Arg Val Pro Pro Thr
1 5

<210> 45
<211> 8
<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 45

Ser Gly Glu Val Thr Gln Phe Thr
1 5

<210> 46

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 46

Gln Asn Asp Tyr Gly Phe Pro Leu Thr
1 5

<210> 47

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 47

Gln Gln Tyr Tyr Ser Tyr Pro Phe Thr
1 5

<210> 48

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 48

Phe Thr Leu Ser Ser Tyr Ala Met Ser
1 5

<210> 49

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 49

Tyr Thr Phe Thr Glu Tyr Thr Met His
1 5

<210> 50

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 50

Tyr Thr Phe Thr Asp Tyr Glu Met His
1 5

<210> 51

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 51

Phe Thr Phe Ser Asp Ala Trp Met Gly
1 5

<210> 52

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 52

Phe Ser Phe Asn Thr Tyr Ala Met Asn
1 5

<210> 53

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 53

Tyr Thr Val Ser Arg Tyr Trp Met His
1 5

<210> 54

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 54

Tyr Pro Phe Ser Asn Phe Trp Ile Thr
1 5

<210> 55

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 55

Leu Thr Ser Asn Thr Tyr Thr Gln Thr
1 5

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

<220>
<223> Synthetic Construct

<400> 56
Phe Thr Phe Ser Asp Ala Trp Met Asp
1 5

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

<220>
<223> Synthetic Construct

<400> 57
Phe Thr Phe Asn Thr Tyr Ser Met Asn
1 5

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

<220>
<223> Synthetic Construct

<400> 58
Tyr Thr Phe Thr Thr Tyr Trp Ile His
1 5

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

<220>
<223> Synthetic Construct

<400> 59
Tyr Ala Phe Ser Asn Tyr Trp Met Ser
1 5

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

<220>
<223> Synthetic Construct

<400> 60
Tyr Ala Phe Ser Ser Ser Trp Met Asn
1 5

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

 <220>
 <223> Synthetic Construct

 <400> 61
 Tyr Ile Phe Thr Thr Tyr Trp Ile His
 1 5

<210> 62
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 62
 Phe Asn Phe Asn Thr Tyr Ala Met Lys
 1 5

<210> 63
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 63
 Phe Asn Phe Asn Thr Tyr Ala Met Asn
 1 5

<210> 64
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 64
 Tyr Thr Phe Ser Asp Tyr Tyr Ile His
 1 5

<210> 65
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 65
 Phe Arg Phe Asn Thr Tyr Ala Met Thr
 1 5

<210> 66
 <211> 13

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 66
Val Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro
1 5 10

<210> 67
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 67
Ile Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser
1 5 10

<210> 68
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 68
Ile Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala Tyr Asn
1 5 10

<210> 69
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 70
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 70
Ile Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala
1 5 10 15

<210> 71
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 71
Ile Gly Arg Ile Asp Pro Asn Ser Gly Gly Thr Lys Tyr Asn
1 5 10

<210> 72
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 72
Ile Gly Asp Ile Tyr Pro Gly Ser Asp Asn Ser Asn Tyr Asn
1 5 10

<210> 73
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 73
Glu Ser Val Ile Arg Ser Lys Ser Asn Asn Phe Ser Thr Leu Tyr Ala
1 5 10 15

<210> 74
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 74
Val Ala Glu Ile Arg Asn Lys Val Asn Asn His Ala Thr Tyr Tyr Ala
1 5 10 15

<210> 75
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 8
<223> Xaa = Glutamic acid or Glutamine

<400> 75
Val Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala
1 5 10 15

<210> 76
<211> 14
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 76

Ile Gly Arg Asn Asp Pro Asn Ser Gly Gly Ser Asn Tyr Asn
1 5 10

<210> 77

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 77

Ile Gly Gln Ile Tyr Pro Gly Asp Gly Asp Thr Lys Tyr Asn
1 5 10

<210> 78

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 78

Ile Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn
1 5 10

<210> 79

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 79

Ile Gly Arg Ile Asp Pro Asn Asn Gly Asp Thr Asn Tyr Asn
1 5 10

<210> 80

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 80

Ile Ala Arg Ile Arg Ser Asn Ser Asn Asp Tyr Ala Thr Asn Tyr Ser
1 5 10 15

<210> 81

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 81

Ile Gly Asp Ile Tyr Pro Gly Ser Asp Asn Arg Asn Phe Asn
1 5 10

<210> 82

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 82

Val Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala
1 5 10 15

<210> 83

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 83

Ile Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn
1 5 10

<210> 84

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 84

Glu Gly Val Ile Arg Arg Lys Ser Ser Asn Phe Ala Thr Leu Tyr Ala
1 5 10 15

<210> 85

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 85

Thr Arg Gly Tyr Gly Tyr Tyr Arg Thr Pro Phe Ala Asn
1 5 10

<210> 86

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 86

Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr
1 5 10

<210> 87
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 87
Thr Ser Pro Asp Tyr Tyr Gly Ser Ser Tyr Pro Leu Tyr Tyr Ala Met
1 5 10 15
Asp Tyr

<210> 88
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 88
Arg Leu Gly Val Phe Asp Tyr
1 5

<210> 89
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 89
Val Arg His Gly Asp Gly Asn Leu Trp Tyr Ile Asp Val
1 5 10

<210> 90
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 90
Val Leu Thr Gly Thr Asp Phe Asp Tyr
1 5

<210> 91
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 91
Ala Arg Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr
Page 21

1 5 10

<210> 92
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 92
Val Arg His Lys Ser Asn Arg Tyr Pro Gly Val Tyr
1 5 10

<210> 93
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 93
Thr Ser Leu Tyr Asp Gly Tyr Tyr Leu Arg Phe Ala Tyr
1 5 10

<210> 94
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 2, 4
<223> Xaa = Glutamic acid or Glutamine

<400> 94
Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr
1 5 10

<210> 95
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 95
Val Arg Thr Asn Trp Asp Gly Asp Phe
1 5

<210> 96
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 96
 Ser Arg Glu Lys Gly Ala Asp Tyr Tyr Gly Ser Thr Tyr Ser Ala Trp
 1 5 10 15
 Phe Ser Tyr

<210> 97
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 97
 Ala Arg Leu Leu Arg Asn Gln Pro Gly Glu Ser Tyr Ala Met Asp Tyr
 1 5 10 15

<210> 98
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 98
 Val Met Thr Gly Thr Asp Phe Asp Tyr
 1 5

<210> 99
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 99
 Val Gly His Lys Ile Asn Asn Tyr Pro Phe Ala His
 1 5 10

<210> 100
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 100
 Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr
 1 5 10

<210> 101
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 101

Ala Arg Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr
1 5 10

<210> 102
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 102
Val Arg His Lys Ser Asn Lys Tyr Pro Phe Val Tyr
1 5 10

<210> 103
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 3
<223> Xaa = Glutamic acid or Glutamine

<400> 103
Asp Ile Xaa Val Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Glu Thr Val Thr Ile Thr Cys
20

<210> 104
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 104
Thr Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly Glu Lys
1 5 10 15
Val Thr Met Ser Cys
20

<210> 105
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 3
<223> Xaa = Glutamic acid or Glutamine

<400> 105
Asp Val Xaa Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
1 5 10 15

Gln Pro Ala Ser Ile Ser Cys
20

<210> 106
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 106
Val Leu Thr Gln Ser Pro Ala Leu Met Ser Ala Ser Pro Gly Glu Lys
1 5 10 15
Val Thr Met Thr Cys
20

<210> 107
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 3
<223> Xaa = Glutamic acid or Glutamine

<400> 107
Asp Val Xaa Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys
20

<210> 108
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 10
<223> Xaa = Glutamic acid or Glutamine

<400> 108
Val Leu Thr Gln Ser Pro Ala Ile Met Xaa Ala Ser Pro Gly Glu Lys
1 5 10 15
Val Thr Met Thr Cys
20

<210> 109
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 109

Asn Val Leu Thr Gln Ser Pro Ala Leu Met Ser Ala Ser Pro Gly Glu
 1 5 10 15
 Lys Val Thr Met Thr Cys
 20

<210> 110
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 110
 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys
 20

<210> 111
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 111
 Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys
 20

<210> 112
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 112
 Ile Thr Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly Glu
 1 5 10 15
 Lys Val Thr Met Ser Cys
 20

<210> 113
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 10, 12
 <223> Xaa = Glutamic acid or Glutamine

<400> 113
 Gln Met Ser Gln Ser Pro Ala Cys Leu Xaa Ala Xaa Val Gly Glu Ser
 1 5 10 15
 Val Thr Ile Thr Cys

<210> 114
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 114
 Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Val Ser Val Gly
 1 5 10 15
 Glu Thr Val Thr Ile Thr Cys
 20

<210> 115
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Glutamic acid or Glutamine

<400> 115
 Asp Val Xaa Met Thr Gln Asn Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys
 20

<210> 116
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 116
 Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys
 20

<210> 117
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa = Glutamic acid or Glutamine

<400> 117
 Asn Val Leu Thr Gln Ser Pro Ala Leu Ile Trp Ala Xaa Pro Gly Glu

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 122
Trp Leu Leu Gln Arg Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr
1 5 10 15

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

<220>
<223> Synthetic Construct

<400> 123
Trp Tyr Gln Gln Lys Pro Arg Ser Ser Pro Lys Pro Trp Ile Tyr
1 5 10 15

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

<220>
<223> Synthetic Construct

<400> 124
Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr
1 5 10 15

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

<220>
<223> Synthetic Construct

<400> 125
Trp Tyr Leu Arg Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr
1 5 10 15

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

<220>
<223> Synthetic Construct

<400> 126
Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Lys Leu Val Val Tyr
1 5 10 15

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

<220>
<223> Synthetic Construct

<400> 127
Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val Tyr
1 5 10 15

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

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 2, 3, 4
<223> Xaa = Any Amino Acid

<400> 128
Trp Xaa Xaa Xaa Lys Pro Arg Ser Ser Pro Lys Pro Gly Ile Tyr
1 5 10 15

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

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 10
<223> Xaa = Glutamic acid or Glutamine

<400> 129
Trp Tyr Gln Gln Lys Pro Gly Gln Pro Xaa Lys Leu Leu Ile Tyr
1 5 10 15

<210> 130
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 130
Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser
1 5 10 15
Leu Arg Ile Asn Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys
20 25 30

<210> 131
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 131

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

<210> 132
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<220>
 <223> Synthetic Construct

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

<210> 134
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gly	Val	Pro	Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Ser	Tyr	Ser
1				5				10					15		
Leu	Thr	Ile	Asn	Asn	Met	Glu	Ala	Glu	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys
			20					25					30		

<210> 135
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 136
 <211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 136
Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser
1 5 10 15
Leu Thr Ile Ser Ser Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 137
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 137
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys
20 25 30

<210> 138
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 17
<223> Xaa = Glutamic acid or Glutamine

<400> 138
Gly Val Pro Asp Arg Phe Ala Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Xaa Lys Ile Ser Arg Leu Glu Ala Asp Asp Leu Gly Ile Tyr Tyr Cys
20 25 30

<210> 139
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 139
Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Thr Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys
20 25 30

<210> 140
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 140
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Lys Ile Ser Arg Val Glu Gly Glu Asp Leu Gly Val Tyr Tyr Cys
20 25 30

<210> 141
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 22
<223> Xaa = Glutamic acid or Glutamine

<400> 141
Gly Val Pro Ser Arg Phe Ser Gly Arg Gly Ser Gly Thr Gln Phe Phe
1 5 10 15
Leu Lys Ile Asn Ser Xaa Gln Arg Glu Asp Phe Gly Ser Tyr Tyr Cys
20 25 30

<210> 142
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 142
Gly Val Pro Ser Arg Phe Ser Ala Ser Gly Ser Ala Thr Gln Phe Ser
1 5 10 15
Leu Lys Ile Asn Ser Leu Gln Ser Ala Asp Phe Gly Ser Tyr Tyr Cys
20 25 30

<210> 143
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 143
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Lys Ile Ser Arg Val Glu Ala Asp Asp Leu Gly Val Tyr Leu Cys
20 25 30

<210> 144
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 144
 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Arg Ile Ser Gly Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys
 20 25 30

<210> 145
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 15
 <223> Xaa = Any Amino Acid

<400> 145
 Gly Val Pro Gly Arg Phe Ser Gly Ser Gly Ser Gly Thr Tyr Xaa Ser
 1 5 10 15
 Phe Lys Ile Ser Ser Met Glu Gly Lys Met Gly Pro Leu Ile Ile Phe
 20 25 30
 Cys

<210> 146
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 11
 <223> Xaa = Glutamic acid or Glutamine

<400> 146
 Gly Val Arg Asp Arg Phe Thr Gly Ser Gly Xaa Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Thr Ile Ser Ser Val Gln Gly Glu Asp Leu Ala Ile Tyr Tyr Cys
 20 25 30

<210> 147
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 147
 Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Thr Ile Ser Thr Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys
 20 25 30

<210> 148
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 148
Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 149
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 149
Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
1 5 10

<210> 150
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 150
Phe Gly Gly Gly Thr Lys Leu Val Ile Lys
1 5 10

<210> 151
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 151
Phe Gly Gly Gly Thr Glu Leu Glu Ile Lys
1 5 10

<210> 152
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 152
Phe Gly Gly Gly Thr Lys Leu Glu Met Lys
1 5 10

<210> 153
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 153
Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
1 5 10

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

<220>
<223> Synthetic Construct

<400> 154
Phe Gly Gly Gly Thr Lys Leu Glu Met Asn
1 5 10

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

<220>
<223> Synthetic Construct

<400> 155
Phe Gly Gly Gly Thr Lys Leu Glu Met Lys
1 5 10

<210> 156
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 156
Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
20 25

<210> 157
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 157
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Thr
1 5 10 15
Ser Val Lys Ile Ser Cys Lys Thr Ser Gly
20 25

<210> 158
<211> 26
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 158

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ala
1 5 10 15
Ser Val Thr Leu Ser Cys Lys Ala Ser Gly
20 25

<210> 159

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 159

Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Met Lys Leu Ser Cys Ala Ala Ser Gly
20 25

<210> 160

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 160

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Lys Gly
1 5 10 15
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
20 25

<210> 161

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 161

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Leu Ser Cys Lys Ala Ser Gly
20 25

<210> 162

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = Glutamic acid or Glutamine

<400> 162

Xaa Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Lys Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
 20 25

<210> 163
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 163
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Met Ser Cys Lys Thr Ser Gly
 20 25

<210> 164
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 6, 7, 11, 19, 20, 24
 <223> Xaa = Glutamic acid or Glutamine

<220>
 <221> VARIANT
 <222> 18
 <223> Xaa = Any Amino Acid

<400> 164
 Glu Val Gln Leu Val Xaa Xaa Gly Arg Gly Xaa Ser Gln Gly Lys Gly
 1 5 10 15
 Ser Xaa Xaa Xaa Gly Arg Ala Xaa Arg Cys
 20 25

<210> 165
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 165
 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Met Lys Leu Ser Cys Thr Ala Ser Gly
 20 25

<210> 166
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 166
Leu Ser Cys Ala Ala Ser Gly
1 5

<210> 167
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 167
Gln Val Gln Leu Gln Gln Ser Gly Ala Val Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Leu Ser Cys Lys Ala Ser Gly
20 25

<210> 168
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 168
Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Ile Ser Cys Lys Ala Ser Gly
20 25

<210> 169
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 169
Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly
20 25

<210> 170
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 170
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Lys Gly
1 5 10 15
Ser Leu Lys Leu Ser Cys Ala Ala Phe Gly
20 25

<210> 171
<211> 26

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 171
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Met Ser Cys Lys Thr Ser Gly
20 25

<210> 172
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 172
Glu Val Gln Leu Val Glu Ser Gly Gly Arg Leu Val Gln Pro Lys Gly
1 5 10 15
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
20 25

<210> 173
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 173
Gln Val Gln Leu Gln Gln Tyr Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Met Ser Cys Lys Val Ser Gly
20 25

<210> 174
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 174
Trp Arg Ile Gly Gln Gly Lys Gly Ser Leu Lys Leu Ala Arg Ala Ala
1 5 10 15
Arg Gly

<210> 175
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 175
Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp
Page 40

<210> 176
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 176
Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp
1 5 10

<210> 177
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 177
Trp Val Lys Gln Thr Pro Val His Gly Leu Glu Trp
1 5 10

<210> 178
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 178
Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp
1 5 10

<210> 179
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 179
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
1 5 10

<210> 180
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 180
Trp Val Lys Gln Arg Pro Gly Arg Gly Leu Glu Trp
1 5 10

<210> 181
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 181
 Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Val Trp
 1 5 10

<210> 182
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 182
 Gly Val Pro Gln Gly Pro Gly Lys Gly Arg Glu Trp
 1 5 10

<210> 183
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 183
 Trp Val Lys Gln Arg Pro Gly Arg Gly Pro Glu Trp
 1 5 10

<210> 184
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 184
 Trp Val Lys Gln Arg Pro Gly Lys Gly Leu Glu Trp
 1 5 10

<210> 185
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 185
 Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp
 1 5 10

<210> 186
 <211> 12
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 186

Trp Met Lys Gln Ser His Gly Lys Ser Leu Glu Trp
1 5 10

<210> 187

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 187

Arg Val Arg Gln Gly Pro Gly Lys Gly Arg Glu Trp
1 5 10

<210> 188

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 188

Asp Ser Val Gln Gly Arg Phe Thr Phe Ser Arg Asp Asn Ala Arg Asn
1 5 10 15
Ile Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met
20 25 30
Tyr Tyr Cys
35

<210> 189

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 189

Gln Lys Phe Lys Gly Lys Ala Ser Leu Thr Val Asp Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met Glu Leu His Ser Leu Ala Ser Asp Asp Ser Ala Val
20 25 30
Tyr Tyr Cys
35

<210> 190

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 190

Gln Lys Phe Lys Gly Lys Ala Ile Leu Thr Ala Asp Lys Ser Ser Ser
1 5 10 15

Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
 20 25 30
 Tyr Tyr Cys
 35

<210> 191
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 191
 Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser
 1 5 10 15
 Thr Val Tyr Leu Gln Met Asn Thr Leu Arg Ala Asp Asp Thr Gly Ile
 20 25 30
 Tyr Tyr Cys
 35

<210> 192
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 192
 Asp Ser Val Lys Asp Arg Ile Thr Cys Ser Arg Asp Asp Ser Glu Asn
 1 5 10 15
 Met Phe Tyr Leu Gln Leu Ser Ser Leu Lys Thr Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Cys
 35

<210> 193
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 193
 Glu Lys Phe Lys Thr Lys Ala Thr Leu Thr Val Asp Lys Pro Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Gln Val Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
 20 25 30
 Tyr Tyr Cys
 35

<210> 194
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 194
 Asp Ser Val Lys Asp Arg Phe Thr Cys Ser Arg Asp Asp Ser Glu Asn
 1 5 10 15

Met Phe Tyr Leu Gln Leu Ser Ser Leu Lys Thr Glu Asp Thr Ala Ile
 20 25 30
 Tyr Tyr Cys
 35

<210> 195
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 195
 Asp Ser Val Lys Asp Arg Phe Thr Cys Ser Arg Asp Asp Ser Glu Asn
 1 5 10 15
 Met Phe Tyr Leu Gln Leu Ser Ser Leu Lys Thr Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Cys
 35

<210> 196
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 196
 Glu Lys Phe Lys Thr Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser
 1 5 10 15
 Thr Ala Tyr Met His Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
 20 25 30
 Tyr Phe Cys
 35

<210> 197
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 9, 20, 24, 25, 27, 35
 <223> Xaa = Glutamic acid or Glutamine

<400> 197
 Asp Ser Val Lys Asp Arg Phe Thr Xaa Ser Arg Asp Asp Ser Glu Ser
 1 5 10 15
 Leu Phe Tyr Xaa Gln Met Ser Xaa Xaa Lys Xaa Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Xaa
 35

<210> 198
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 198

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser
1 5 10 15
Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Gly Ile
20 25 30
Tyr Tyr Cys
35

<210> 199

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 23

<223> Xaa = Glutamic acid or Glutamine

<400> 199

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Glu Ser
1 5 10 15
Met Leu Tyr Leu Gln Met Xaa Asn Leu Lys Thr Glu Asp Thr Ala Met
20 25 30
Tyr Tyr Cys
35

<210> 200

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 30

<223> Xaa = Glutamic acid or Glutamine

<400> 200

Glu Lys Phe Arg Asn Lys Ala Ile Leu Thr Val Asp Lys Pro Ser Ser
1 5 10 15
Thr Ala Tyr Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Xaa Ala Val
20 25 30
Tyr Tyr Cys
35

<210> 201

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 201

Gly Lys Phe Glu Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
20 25 30

Tyr Phe Cys
35

<210> 202
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 202
Gly Glu Phe Arg Val Arg Ala Thr Leu Thr Ala Asp Thr Ser Ser Thr
1 5 10 15
Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
20 25 30
Tyr Phe Cys
35

<210> 203
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 203
Glu Lys Phe Lys Thr Lys Ala Thr Leu Thr Val Asp Lys Pro Ser Ser
1 5 10 15
Thr Ala Asp Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
20 25 30
Tyr Tyr Cys
35

<210> 204
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 204
Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Glu Ser
1 5 10 15
Ile Val Tyr Val Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Gly Met
20 25 30
Tyr Ser Cys
35

<210> 205
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 205
Glu Arg Phe Lys Thr Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met His Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
20 25 30

Tyr Phe Cys
35

<210> 206
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 206
Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Glu Ser
1 5 10 15
Met Leu Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Met
20 25 30
Tyr Tyr Cys
35

<210> 207
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 34
<223> Xaa = Glutamic acid or Glutamine

<400> 207
Gln Glu Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Phe Glu Asp Ser Ala Val
20 25 30
Tyr Xaa Cys
35

<210> 208
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 208
Asp Ser Val Lys Asp Arg Phe Arg Ala Ser Arg Asp Asp Ser Glu Ser
1 5 10 15
Met Leu Tyr Val Gln Met Ser Asn Trp Lys Gln Glu Asp Thr Ala Met
20 25 30
Tyr Tyr Gly
35

<210> 209
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>
<223> Synthetic Construct

<400> 210
Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
1 5 10

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

<220>
<223> Synthetic Construct

<400> 211
Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
1 5 10

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

<220>
<223> Synthetic Construct

<400> 212
Trp Gly Thr Gly Thr Thr Val Thr Val Ser Thr
1 5 10

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

<220>
<223> Synthetic Construct

<400> 213
Trp Gly Thr Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 214
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 214
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Thr
1 5 10

<210> 215
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 215
Trp Gly Gln Gly Thr Ile Val Thr Val Ser
1 5 10

<210> 216
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 216
Trp Gly Gln Gly Ala Ser Val Thr Val Ser Ser
1 5 10

<210> 217
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 217
Trp Gly Arg Gly Thr Leu Val
1 5

<210> 218
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 218
Trp Gly Gln Gly Thr
1 5

<210> 219
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 3
<223> Xaa = Glutamic acid or Glutamine

<400> 219

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

<210> 220

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 220

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

<210> 221

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 221

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

<210> 222

<211> 108

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 222
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Asn Ile Tyr Ser Phe
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Asn Ser Lys Thr Phe Ala Glu Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80
Glu Asp Phe Ala Val Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Pro
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 223
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 223
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Phe
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Asn Ser Lys Thr Phe Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Asp Asp Phe Ala Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Pro
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 224
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 224
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Phe
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Asn Ser Lys Thr Phe Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Pro
85 90 95

Trp Thr Phe Gly⁸⁵ Gln Gly Thr Lys Val⁹⁰ Glu Ile Lys 95
100 105

<210> 225
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 225
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Phe
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Asn Ser Lys Thr Phe Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Glu Asp Ile Ala Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Pro
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 226
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 226
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Asn Ile Tyr Ser Phe
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Asn Ser Lys Thr Phe Ala Glu Gly Ile Pro Asp Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
65 70 75 80
Glu Asp Phe Ala Val Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Pro
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 227
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 227
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ala Ser Glu Asn Ile Tyr Ser Phe
20 25 30

Leu Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45
 Tyr Asn Ser Lys Thr Phe Ala Glu Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 65 70 75 80
 Glu Asp Val Gly Val Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Pro
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 228
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 228
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Arg Ala Ser Glu Asn Ile Tyr Ser Phe
 20 25 30
 Leu Ala Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile
 35 40 45
 Tyr Asn Ser Lys Thr Phe Ala Glu Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 65 70 75 80
 Glu Asp Val Gly Val Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Pro
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 229
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 229
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Glu Arg Ala Thr Ile Asn Cys Arg Ala Ser Glu Asn Ile Tyr Ser Phe
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45
 Tyr Asn Ser Lys Thr Phe Ala Glu Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala
 65 70 75 80
 Glu Asp Val Ala Val Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Pro
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 230
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 230

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

<210> 231

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 231

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

<210> 232

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 232

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

Lys 100 105 110

<210> 233
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 233
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asn Gln Lys Asn Cys Leu Ala Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Tyr Trp Ala Phe Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 234
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 234
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asn Gln Lys Asn Cys Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Phe Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 235
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 235

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

<210> 236
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 237
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Lys

<210> 238
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 238
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Ser Asn Gln Lys Asn Cys Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45
Ala Pro Lys Leu Leu Ile Tyr Trp Ala Phe Thr Arg Glu Ser Gly Val
50 55 60
Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 239
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 239
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Ser Asn Gln Lys Asn Cys Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45
Ala Pro Arg Leu Leu Ile Tyr Trp Ala Phe Thr Arg Glu Ser Gly Ile
50 55 60
Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 240
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 240
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly

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

<210> 241
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Glutamic acid or Glutamine

<400> 241															
Asp	Val	Xaa	Met	Thr	Gln	Thr	Pro	Leu	Thr	Leu	Ser	Val	Thr	Ile	Gly
1				5					10					15	
Gln	Pro	Ala	Ser	Ile	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser
			20					25				30			
Asn	Gly	Lys	Thr	Phe	Leu	Ser	Trp	Leu	Leu	Gln	Arg	Pro	Gly	Gln	Ser
		35					40				45				
Pro	Lys	Arg	Leu	Ile	Tyr	Leu	Val	Ser	Lys	Leu	Asp	Ser	Gly	Val	Pro
	50					55				60					
Asp	Arg	Phe	Ala	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile
65				70					75						80
Ser	Arg	Leu	Glu	Ala	Asp	Asp	Leu	Gly	Ile	Tyr	Tyr	Cys	Met	Gln	Gly
			85					90					95		
Thr	His	Phe	Pro	Leu	Thr	Phe	Gly	Ala	Gly	Thr	Lys	Leu	Glu	Leu	Lys
			100					105					110		

<210> 242
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 242															
Asp	Val	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Leu	Gly
1				5					10					15	
Gln	Pro	Ala	Ser	Ile	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser
			20					25				30			
Asn	Gly	Lys	Thr	Phe	Leu	Ser	Trp	Phe	Gln	Gln	Arg	Pro	Gly	Gln	Ser
		35					40				45				
Pro	Arg	Arg	Leu	Ile	Tyr	Leu	Val	Ser	Lys	Leu	Asp	Ser	Gly	Val	Pro
	50					55				60					
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile
65				70					75						80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gly
			85					90					95		

Thr His Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 243
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 243
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Asn Gly Lys Thr Phe Leu Ser Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gly
85 90 95
Thr His Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 244
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 244
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15
Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Asn Gly Lys Thr Phe Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro
35 40 45
Pro Lys Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Met Gln Gly
85 90 95
Thr His Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 245
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 245
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Asn Gly Lys Thr Phe Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala

<400> 248
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Asn Gly Lys Thr Phe Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Met Gln Gly
 85 90 95
 Thr His Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 249
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 249
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Asn Gly Lys Thr Phe Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Ile Pro
 50 55 60
 Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Gly
 85 90 95
 Thr His Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 250
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 250
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Asn Gly Lys Thr Phe Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Ile Pro
 50 55 60
 Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Gly
 85 90 95
 Thr His Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 251
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 251
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Asn Gly Lys Thr Phe Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Ile Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Gly
 85 90 95
 Thr His Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 252
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Glutamic acid or Glutamine

<400> 252
 Asp Val Xaa Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly
 85 90 95
 Thr His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 253
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 253
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

Asp	Gly	Lys	Thr	Tyr	Leu	Asn	Trp	Phe	Gln	Gln	Arg	Pro	Gly	Gln	Ser
		35					40					45			
Pro	Arg	Arg	Leu	Ile	Tyr	Leu	Val	Ser	Lys	Leu	Asp	Ser	Gly	Val	Pro
	50					55					60				
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile
65					70					75					80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Trp	Gln	Gly
				85					90					95	
Thr	His	Phe	Pro	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 254
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 255
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 256
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 256

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

<210> 257

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 257

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

<210> 258

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 258

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

<210> 259
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 259
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Trp Gln Gly
 85 90 95
 Thr His Phe Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 260
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 260
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Ile Pro
 50 55 60
 Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Trp Gln Gly
 85 90 95
 Thr His Phe Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 261
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 261
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Ile Pro
 50 55 60

Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile
65					70					75					80
Ser	Ser	Leu	Gln	Ser	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Trp	Gln	Gly
			85						90					95	
Thr	His	Phe	Pro	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 262
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 262															
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Leu	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Asp	Ser
			20					25					30		
Asp	Gly	Lys	Thr	Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala
		35					40					45			
Pro	Arg	Leu	Leu	Ile	Tyr	Leu	Val	Ser	Lys	Leu	Asp	Ser	Gly	Ile	Pro
	50					55					60				
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile
65					70					75					80
Ser	Arg	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Trp	Gln	Gly
			85						90					95	
Thr	His	Phe	Pro	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 263
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 263															
Val	Leu	Thr	Gln	Ser	Pro	Ala	Leu	Met	Ser	Ala	Ser	Pro	Gly	Glu	Lys
1				5					10					15	
Val	Thr	Met	Thr	Cys	Ser	Ala	Ser	Ser	Ser	Val	Ser	Tyr	Met	Tyr	Trp
			20					25					30		
Tyr	Gln	Gln	Lys	Pro	Arg	Ser	Ser	Pro	Lys	Pro	Trp	Ile	Tyr	Leu	Thr
		35					40					45			
Ser	Ile	Leu	Ala	Ser	Gly	Val	Pro	Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser
	50					55					60				
Gly	Thr	Ser	Tyr	Ser	Leu	Thr	Ile	Asn	Asn	Met	Glu	Ala	Glu	Asp	Ala
65					70					75					80
Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Trp	Ser	Phe	Asn	Pro	Tyr	Thr	Phe	Gly
				85					90					95	
Gly	Gly	Thr	Lys	Leu	Val	Ile	Lys								
			100												

<210> 264
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 264															
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Leu	Ser	Pro	Gly

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

<210> 265
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 265	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10						15	
	Asp	Arg	Val	Thr	Ile	Thr	Cys	Ser	Ala	Ser	Ser	Ser	Val	Ser	Tyr	Met
			20					25					30			
	Tyr	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Tyr
			35					40					45			
	Leu	Thr	Ser	Ile	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser
			50				55				60					
	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu
65					70					75					80	
	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Trp	Ser	Phe	Asn	Pro	Tyr	Thr
				85						90					95	
	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys						
			100						105							

<210> 266
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 266	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Val	Gly
1				5					10						15	
	Asp	Arg	Val	Thr	Ile	Thr	Cys	Ser	Ala	Ser	Ser	Ser	Val	Ser	Tyr	Met
			20					25					30			
	Tyr	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Tyr
			35					40					45			
	Leu	Thr	Ser	Ile	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser
			50				55				60					
	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Asp
65					70					75					80	
	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Trp	Ser	Phe	Asn	Pro	Tyr	Thr
				85						90					95	
	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys						
			100						105							

<210> 267
 <211> 106
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 267

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

<210> 268

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 268

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

<210> 269

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 269

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

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

<210> 270
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 270
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30
Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Ile Tyr
35 40 45
Leu Thr Ser Ile Leu Ala Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
50 55 60
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu
65 70 75 80
Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Phe Asn Pro Tyr Thr
85 90 95
Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 271
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 271
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30
Tyr Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Ile Tyr
35 40 45
Leu Thr Ser Ile Leu Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
50 55 60
Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu
65 70 75 80
Asp Val Gly Val Tyr Tyr Cys Gln Gln Trp Ser Phe Asn Pro Tyr Thr
85 90 95
Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 272
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 272
Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
1 5 10 15
Gln Pro Ala Ser Ile Ser Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30
Tyr Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile Tyr

Leu	Thr	35	Ile	Leu	Ala	Ser	40	Gly	Val	Pro	Asp	Arg	45	Phe	Ser	Gly	Ser
	50	Ser				55						60					
Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile	Ser	Arg	Val	Glu	Ala	Glu		
65					70					75					80		
Asp	Val	Gly	Val	Tyr	Tyr	Cys	Gln	Gln	Trp	Ser	Phe	Asn	Pro	Tyr	Thr		
			85						90					95			
Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys								
		100						105									

<210> 273
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 274
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Glutamic acid or Glutamine

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

<210> 275
 <211> 112

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 275
Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
1 5 10 15
Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Phe Gln Gln Arg Pro Gly Gln Ser
35 40 45
Pro Arg Arg Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ser Gln Ser
85 90 95
Thr His Val Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 276
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 276
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ser Gln Ser
85 90 95
Thr His Val Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 277
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 277
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15
Glu Arg Ala Thr Ile Asn Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Pro
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Ser Gln Ser

Thr	His	Val	Pro	85	Leu	Thr	Phe	Gly	Gln	90	Gly	Thr	Lys	Val	Glu	95	Ile	Lys
			100						105						110			

<210> 278
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 278																		
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Leu	Ser	Pro	Gly			
1				5					10					15				
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Val	His	Ser			
			20					25					30					
Asn	Gly	Asn	Thr	Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala			
		35					40					45						
Pro	Arg	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Ser	Gly	Ile	Pro			
	50					55					60							
Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile			
65					70				75						80			
Ser	Ser	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Ser	Gln	Ser			
				85					90					95				
Thr	His	Val	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys			
			100					105					110					

<210> 279
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 279																		
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly			
1				5					10					15				
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Val	His	Ser			
			20					25					30					
Asn	Gly	Asn	Thr	Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala			
		35					40					45						
Pro	Lys	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Ser	Gly	Val	Pro			
	50					55					60							
Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile			
65					70				75						80			
Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Ser	Gln	Ser			
				85					90					95				
Thr	His	Val	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys			
			100					105					110					

<210> 280
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 280																		
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly			
1				5					10					15				
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Val	His	Ser			
			20					25					30					

Asn	Gly	Asn	Thr	Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala
		35					40					45			
Pro	Lys	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Ser	Gly	Val	Pro
	50					55					60				
Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Phe	Thr	Ile
65				70					75						80
Ser	Ser	Leu	Gln	Pro	Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	Ser	Gln	Ser
			85						90					95	
Thr	His	Val	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 281
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 282
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 283
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 283

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

<210> 284

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 284

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

<210> 285

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 10

<223> Xaa = Glutamic acid or Glutamine

<400> 285

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

Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Phe Asn Pro Tyr Thr Phe Gly
 85 90 95
 Gly Gly Thr Lys Leu Val Ile Lys
 100

<210> 286
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 286
 Asn Val Leu Thr Gln Ser Pro Ala Leu Met Ser Ala Ser Pro Gly Glu
 1 5 10 15
 Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met Tyr
 20 25 30
 Trp Tyr Gln Gln Lys Pro Arg Ser Pro Lys Pro Trp Ile Tyr Leu
 35 40 45
 Thr Ser Ile Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Gly
 50 55 60
 Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu Asp
 65 70 75 80
 Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Phe Asn Pro Tyr Thr Phe
 85 90 95
 Gly Gly Gly Thr Lys Leu Val Ile Lys
 100 105

<210> 287
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 287
 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Thr Ile Ile His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Arg Lys Pro Gly Gln Ser
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly
 85 90 95
 Ser His Val Pro Tyr Thr Phe Gly Gly Thr Glu Leu Glu Ile Lys
 100 105 110

<210> 288
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 288
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Thr Ile Ile His Ser

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

<210> 289
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 290
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 291
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 291
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ser Gln Thr Ile Ile His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Gln Ala
35 40 45
Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Ile Pro
50 55 60
Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 292
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 292
Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ser Gln Thr Ile Ile His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ala
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 293
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 293
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Thr Ile Ile His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ala
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile
65 70 75 80
Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 294
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 294
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Thr Ile Ile His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
 85 90 95
 Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 295
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 295
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ser Ser Gln Thr Ile Ile His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Ile Pro
 50 55 60
 Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys Phe Gln Gly
 85 90 95
 Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 296
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 296
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Thr Ile Ile His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro

<220>

<223> Synthetic Construct

<400> 299

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

<210> 300

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 300

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

Lys

<210> 301

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 301

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

Tyr Tyr Ser Tyr⁸⁵ Pro Leu Thr Phe Gly⁹⁰ Gln Gly Thr Lys Val⁹⁵ Glu Ile
 100 105 110
 Lys

<210> 302
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 302
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asp Gln Lys Asn Tyr Leu Ala Trp Phe Gln Gln Arg Pro Gly Gln
 35 40 45
 Ser Pro Arg Arg Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr¹⁰⁰ Pro Leu Thr Phe Gly¹⁰⁵ Gln Gly Thr Lys Val¹¹⁰ Glu Ile
 Lys

<210> 303
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 303
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asp Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr¹⁰⁰ Pro Leu Thr Phe Gly¹⁰⁵ Gln Gly Thr Lys Val¹¹⁰ Glu Ile
 Lys

<210> 304
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 304
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asp Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 305
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 305
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asp Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 306
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 306
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asp Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
 85 90 95

Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 307
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 307
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Ser Asp Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45
Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
50 55 60
Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 308
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 308
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Ser Asp Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45
Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
65 70 75 80
Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 309
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 309
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asp Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 310
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Glutamic acid or Glutamine

<400> 310
 Asp Val Xaa Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Thr Ile Ile His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Arg Lys Pro Gly Gln Ser
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Gly Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly
 85 90 95
 Ser His Val Pro Tyr Thr Phe Gly Gly Gly Thr Glu Leu Glu Ile Lys
 100 105 110

<210> 311
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 10, 12, 76
 <223> Xaa = Glutamic acid or Glutamine

<400> 311
 Gln Met Ser Gln Ser Pro Ala Cys Leu Xaa Ala Xaa Val Gly Glu Ser
 1 5 10 15
 Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr Leu Ala
 20 25 30
 Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Lys Leu Val Val Tyr Lys

Ala	Lys	35	Leu	Ala	Glu	Gly	40	Val	Pro	Ser	Arg	Phe	45	Ser	Gly	Arg	Gly
	50	Thr				55						60					
Ser	Gly	Thr	Gln	Phe	Phe	Leu	Lys	Ile	Asn	Ser	Xaa	Gln	Arg	Glu	Asp		
65					70					75					80		
Phe	Gly	Ser	Tyr	Tyr	Cys	Gln	His	His	Tyr	Gly	Thr	Pro	Phe	Thr	Phe		
			85						90					95			
Gly	Ser	Gly	Thr	Lys	Leu	Glu	Ile	Lys									
		100						105									

<210> 312
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 313
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 314
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 314
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Lys Ala Lys Thr Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Asp Asp Phe Ala Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Phe
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 315
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 315
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Lys Ala Lys Thr Leu Ala Glu Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Phe
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 316
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 316
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Lys Ala Lys Thr Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Phe
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 317
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 317
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Ile
 35 40 45
 Tyr Lys Ala Lys Thr Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Ile Ala Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Phe
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 318
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 318
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Lys Ala Lys Thr Leu Ala Glu Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Phe
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 319
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 319
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr
 20 25 30
 Leu Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45
 Tyr Lys Ala Lys Thr Leu Ala Glu Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala

65	Glu	Asp	Val	Gly	70	Val	Tyr	Tyr	Cys	Gln	75	His	Tyr	Gly	Thr	80	Pro	Phe
				85							90					95		
	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	105	Ile	Lys						
				100														

<210> 320
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 320	Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Asp	Ser	Leu	Ala	Val	Ser	Leu	Gly
1				5						10					15	
	Glu	Arg	Ala	Thr	Ile	Asn	Cys	Arg	Ala	Ser	Glu	Asn	Ile	Tyr	Ser	Tyr
				20					25					30		
	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro	Pro	Lys	Leu	Leu	Ile
			35					40					45			
	Tyr	Lys	Ala	Lys	Thr	Leu	Ala	Glu	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly
		50					55					60				
	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ala
65					70						75					80
	Glu	Asp	Val	Ala	Val	Tyr	Tyr	Cys	Gln	His	His	Tyr	Gly	Thr	Pro	Phe
				85						90					95	
	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	105	Ile	Lys				
				100												

<210> 321
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 321	Asp	Val	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Leu	Gly
1				5						10					15	
	Gln	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ala	Ser	Glu	Asn	Ile	Tyr	Ser	Tyr
			20						25					30		
	Leu	Ala	Trp	Phe	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Arg	Arg	Leu	Ile
			35					40					45			
	Tyr	Lys	Ala	Lys	Thr	Leu	Ala	Glu	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly
		50					55					60				
	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile	Ser	Arg	Val	Glu	Ala
65					70						75					80
	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Gln	His	His	Tyr	Gly	Thr	Pro	Phe
				85						90					95	
	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	105	Ile	Lys				
				100												

<210> 322
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 322	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ser	Val	Ser	Val	Gly
1				5						10					15	

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

<210> 323
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 324
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 325
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 325

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

<210> 326

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 326

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

<210> 327

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 327

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

100

105

<210> 328
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 328
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Glu Asn Val Tyr Ser Asn
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Ile Ala Thr Tyr Tyr Cys His His Phe Trp Gly Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 329
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 329
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Glu Asn Val Tyr Ser Asn
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Ala Ala Thr Asn Leu Ala Asp Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys His His Phe Trp Gly Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 330
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 330
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Thr Ser Glu Asn Val Tyr Ser Asn
 20 25 30
 Leu Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45

Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 65 70 75 80
 Glu Asp Val Gly Val Tyr Tyr Cys His His Phe Trp Gly Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 331
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 331
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Arg Thr Ser Glu Asn Val Tyr Ser Asn
 20 25 30
 Leu Ala Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile
 35 40 45
 Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 65 70 75 80
 Glu Asp Val Gly Val Tyr Tyr Cys His His Phe Trp Gly Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 332
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 332
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Glu Arg Ala Thr Ile Asn Cys Arg Thr Ser Glu Asn Val Tyr Ser Asn
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala
 65 70 75 80
 Glu Asp Val Ala Val Tyr Tyr Cys His His Phe Trp Gly Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 333
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Glutamic acid or Glutamine

<400> 333
 Asp Val Xaa Met Thr Gln Asn Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Asp Asp Leu Gly Val Tyr Leu Cys Ser Gln Ser
 85 90 95
 Thr Arg Val Pro Tyr Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 334
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 334
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Phe Gln Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Arg Arg Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 335
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 335
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ser Gln Ser
 85 90 95

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

<210> 336
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 336
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15
Glu Arg Ala Thr Ile Asn Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Tyr Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Pro
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Ser Gln Ser
85 90 95
Thr Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 337
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 337
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Tyr Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala
35 40 45
Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Ile Pro
50 55 60
Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Ser Gln Ser
85 90 95
Thr Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 338
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 338
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Tyr Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala

<400> 341
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 342
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 342
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 343
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 343
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Ile Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 344
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 344
 Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys Arg Phe Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Arg Ile
 65 70 75 80
 Ser Gly Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
 85 90 95
 Thr Arg Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 345
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 345
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Arg Phe Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Phe Gln Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Arg Arg Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr Arg Val Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 346
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 346
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Phe Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile

65	Ser	Arg	Val	Glu	70	Ala	Glu	Asp	Val	Gly	75	Val	Tyr	Tyr	Cys	Ser	80	Gln	Ser
					85						90						95		
	Thr	Arg	Val	Pro	100	Pro	Thr	Phe	Gly	Gln	105	Gly	Thr	Lys	Val	Glu	110	Ile	Lys

<210> 347
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 347	Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Asp	Ser	Leu	Ala	Val	Ser	Leu	Gly			
1					5					10					15				
	Glu	Arg	Ala	Thr	Ile	Asn	Cys	Arg	Phe	Ser	Gln	Ser	Leu	Val	His	Ser			
				20					25					30					
	Asn	Gly	Asn	Thr	Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro			
			35					40					45						
	Pro	Lys	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Ser	Gly	Val	Pro			
		50					55					60							
	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile			
65					70					75						80			
	Ser	Ser	Leu	Gln	Ala	Glu	Asp	Val	Ala	Val	Tyr	Tyr	Cys	Ser	Gln	Ser			
				85					90						95				
	Thr	Arg	Val	Pro	100	Pro	Thr	Phe	Gly	Gln	105	Gly	Thr	Lys	Val	Glu	110	Ile	Lys

<210> 348
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 348	Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Leu	Ser	Pro	Gly			
1					5					10					15				
	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Phe	Ser	Gln	Ser	Leu	Val	His	Ser			
				20					25					30					
	Asn	Gly	Asn	Thr	Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala			
			35					40					45						
	Pro	Arg	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Ser	Gly	Ile	Pro			
		50					55					60							
	Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile			
65					70					75						80			
	Ser	Ser	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Ser	Gln	Ser			
				85					90						95				
	Thr	Arg	Val	Pro	100	Pro	Thr	Phe	Gly	Gln	105	Gly	Thr	Lys	Val	Glu	110	Ile	Lys

<210> 349
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 349	Glu	Ile	Val	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Val	Ser	Pro	Gly
1					5					10					15	

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

<210> 350
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 351
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 352
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 352

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

<210> 353

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 353

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

<210> 354

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 354

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

100

105

110

<210> 355
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 355
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Lys Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Phe Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Lys Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Asn Ser Asn Asp Tyr Ala Thr Asn Tyr Ser Asp
 50 55 60
 Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Glu Ser Ile
 65 70 75 80
 Val Tyr Val Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Gly Met Tyr
 85 90 95
 Ser Cys Val Gly His Lys Ile Asn Asn Tyr Pro Phe Ala His Trp Gly
 100 105 110
 Arg Gly Thr Leu Val
 115

<210> 356
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 356
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Ser Asn Val Asn Tyr Met
 20 25 30
 Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
 35 40 45
 Phe Thr Ser Asn Leu Pro Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Leu Gln Pro Glu
 65 70 75 80
 Asp Ile Ala Thr Tyr Tyr Cys Ser Gly Glu Val Thr Gln Phe Thr Phe
 85 90 95
 Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 357
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 357
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Ser Asn Val Asn Tyr Met
 20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
 35 40 45
 Phe Thr Ser Asn Leu Pro Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu
 65 70 75 80
 Asp Phe Ala Thr Tyr Tyr Cys Ser Gly Glu Val Thr Gln Phe Thr Phe
 85 90 95
 Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 358
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 358
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Ser Asn Val Asn Tyr Met
 20 25 30
 Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
 35 40 45
 Phe Thr Ser Asn Leu Pro Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu
 65 70 75 80
 Asp Phe Ala Thr Tyr Tyr Cys Ser Gly Glu Val Thr Gln Phe Thr Phe
 85 90 95
 Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 359
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 359
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Ser Asn Val Asn Tyr Met
 20 25 30
 Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
 35 40 45
 Phe Thr Ser Asn Leu Pro Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp
 65 70 75 80
 Asp Phe Ala Thr Tyr Tyr Cys Ser Gly Glu Val Thr Gln Phe Thr Phe
 85 90 95
 Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 360
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 360

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

<210> 361

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 361

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

<210> 362

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 362

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

<210> 363
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 363
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ala Ser Ser Asn Val Asn Tyr Met
 20 25 30
 Ser Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile Tyr
 35 40 45
 Phe Thr Ser Asn Leu Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu
 65 70 75 80
 Asp Val Gly Val Tyr Tyr Cys Ser Gly Glu Val Thr Gln Phe Thr Phe
 85 90 95
 Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 364
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 364
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Glu Arg Ala Thr Ile Asn Cys Lys Ala Ser Ser Asn Val Asn Tyr Met
 20 25 30
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
 35 40 45
 Phe Thr Ser Asn Leu Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu
 65 70 75 80
 Asp Val Ala Val Tyr Tyr Cys Ser Gly Glu Val Thr Gln Phe Thr Phe
 85 90 95
 Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 365
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 365
 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Thr Ile Ile His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Arg Lys Pro Gly Gln Ser
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Cys Gly Val Pro
 50 55 60

Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile
65					70					75					80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Leu	Gly	Val	Tyr	Tyr	Cys	Phe	Gln	Gly
				85					90					95	
Ser	His	Val	Pro	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Glu	Leu	Glu	Ile	Lys
			100					105					110		

<210> 366
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 366															
Asp	Val	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Leu	Gly
1				5					10					15	
Gln	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Thr	Ile	Ile	His	Ser
			20					25					30		
Asn	Gly	Asn	Thr	Tyr	Leu	Glu	Trp	Phe	Gln	Gln	Arg	Pro	Gly	Gln	Ser
		35					40					45			
Pro	Arg	Arg	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Cys	Gly	Val	Pro
	50					55					60				
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile
65					70					75					80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Phe	Gln	Gly
				85					90					95	
Ser	His	Val	Pro	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 367
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 367															
Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Thr	Ile	Ile	His	Ser
			20					25					30		
Asn	Gly	Asn	Thr	Tyr	Leu	Glu	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser
		35					40					45			
Pro	Gln	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Cys	Gly	Val	Pro
	50					55					60				
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile
65					70					75					80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Phe	Gln	Gly
				85					90					95	
Ser	His	Val	Pro	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 368
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 368															
Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Asp	Ser	Leu	Ala	Val	Ser	Leu	Gly

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

<210> 369
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	369													
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Leu	Ser	Pro
1				5					10				15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ser	Ser	Gln	Thr	Ile	Ile	His
			20					25				30		
Asn	Gly	Asn	Thr	Tyr	Leu	Glu	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln
		35					40					45		
Pro	Arg	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Cys	Gly	Ile
	50					55					60			
Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr
65					70					75				80
Ser	Ser	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Phe	Gln
				85					90					95
Ser	His	Val	Pro	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110	Lys

<210> 370
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	370													
Glu	Ile	Val	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Val	Ser	Pro
1				5					10				15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ser	Ser	Gln	Thr	Ile	Ile	His
			20					25				30		
Asn	Gly	Asn	Thr	Tyr	Leu	Glu	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln
		35					40					45		
Pro	Arg	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Cys	Gly	Ile
	50					55					60			
Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr
65					70					75				80
Ser	Ser	Leu	Gln	Ser	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Phe	Gln
				85					90					95
Ser	His	Val	Pro	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110	Lys

<210> 371
 <211> 112
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 371

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

<210> 372

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 372

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

<210> 373

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 373

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

Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 374
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 374
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Thr Ile Ile His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ala
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Cys Gly Val Pro
50 55 60
Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 375
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 375
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Thr Ile Ile His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ala
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Cys Gly Val Pro
50 55 60
Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 376
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 3, 50, 73
<223> Xaa = Glutamic acid or Glutamine

<400> 376

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

<210> 377
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 378
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Lys

<210> 379
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 379
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30
Gly Asn Gln Lys Lys Tyr Leu Thr Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45
Ser Pro Gln Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Asn
85 90 95
Asp Tyr Gly Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 380
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 380
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30
Gly Asn Gln Lys Lys Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45
Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
65 70 75 80
Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Asn
85 90 95
Asp Tyr Gly Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 381
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 381
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly

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

<210> 382
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 382															
Glu	Ile	Val	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Val	Ser	Pro	Gly
1				5				10					15		
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Asn	Ser
			20					25				30			
Gly	Asn	Gln	Lys	Lys	Tyr	Leu	Thr	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ala	Pro	Arg	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Ile
	50					55					60				
Pro	Ala	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr
65					70					75					80
Ile	Ser	Ser	Leu	Gln	Ser	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Asn
			85						90					95	
Asp	Tyr	Gly	Phe	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110		
Lys															

<210> 383
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 383															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Val	Gly
1				5				10					15		
Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Asn	Ser
			20					25				30			
Gly	Asn	Gln	Lys	Lys	Tyr	Leu	Thr	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys
		35					40					45			
Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val
	50					55					60				
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr
65					70					75					80
Ile	Ser	Ser	Leu	Gln	Pro	Asp	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Asn
			85						90					95	
Asp	Tyr	Gly	Phe	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110		
Lys															

<210> 384
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 384
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30
 Gly Asn Gln Lys Lys Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Asn
 85 90 95
 Asp Tyr Gly Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 385
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 385
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30
 Gly Asn Gln Lys Lys Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Asn
 85 90 95
 Asp Tyr Gly Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 386
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 386
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 Gly Asn Gln Lys Lys Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Lys
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Asn
 Asp Tyr Gly Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 Lys

<210> 387
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 387
 Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly Glu Lys Val Thr
 1 5 10 15
 Met Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser Gly Asn Gln Lys
 20 25 30
 Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu
 35 40 45
 Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Thr Val
 65 70 75 80
 Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Ser Tyr
 85 90 95
 Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 388
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 388
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Gly Asn Gln Lys Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 389
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 389
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Gly Asn Gln Lys Asn Phe Leu Ala Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 390
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 390
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Gly Asn Gln Lys Asn Phe Leu Ala Trp Phe Gln Gln Arg Pro Gly Gln
 35 40 45
 Ser Pro Arg Arg Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 391
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 391
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Gly Asn Gln Lys Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
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Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val
	50					55					60				
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr
65					70					75					80
Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
				85					90					95	
Tyr	Tyr	Ser	Tyr	Pro	Phe	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110		
Lys															

<210> 392
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 393
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 394

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

<220>
 <223> Synthetic Construct

<400> 394
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Gly Asn Gln Lys Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 395
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 395
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Gly Asn Gln Lys Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 396
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 396
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Gly Asn Gln Lys Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45

Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Ser Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 397
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 397
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Gly Asn Gln Lys Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45
Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
50 55 60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 398
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 398
Thr Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly Glu Lys
1 5 10 15
Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser Ser Asp
20 25 30
Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro
35 40 45
Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp
50 55 60
Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80
Ser Val Lys Ala Glu Asp Leu Ala Val Tyr Cys Cys Gln Gln Tyr Tyr
85 90 95
Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105 110

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

<220>

<223> Synthetic Construct

<400> 399

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

<210> 400

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 400

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

<210> 401

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 401

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

<210> 402
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 402
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Asp Ser Val Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu
 65 70 75 80
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr
 85 90 95
 Arg Gly Tyr Gly Tyr Tyr Arg Thr Pro Phe Ala Asn Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser 115

<210> 403
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 403
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Asp Ser Val Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
 65 70 75 80
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr
 85 90 95
 Arg Gly Tyr Gly Tyr Tyr Arg Thr Pro Phe Ala Asn Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser 115

<210> 404
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 404
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Leu Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
35 40 45
Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Gln Lys Phe Gln
50 55 60
Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr Met
65 70 75 80
Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95
Arg Gly Tyr Gly Tyr Tyr Arg Thr Pro Phe Ala Asn Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

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

<220>
<223> Synthetic Construct

<400> 405
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Leu Ser Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
35 40 45
Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Gln Lys Phe Gln
50 55 60
Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr Met
65 70 75 80
Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95
Arg Gly Tyr Gly Tyr Tyr Arg Thr Pro Phe Ala Asn Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 406
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 406
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Thr Leu Ser Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Ser Phe Gln
50 55 60
Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr Leu
65 70 75 80

Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys Thr
 Arg Gly Tyr Gly Tyr Tyr Arg Thr Pro Phe Ala Asn Trp Gly Gln Gly
 Thr Leu Val Thr Val Ser Ser
 115

<210> 407
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 407
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Thr Leu Ser Tyr
 20 25 30
 Ala Met Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Pro Ser Leu Lys
 50 55 60
 Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
 65 70 75 80
 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Thr
 85 90 95
 Arg Gly Tyr Gly Tyr Tyr Arg Thr Pro Phe Ala Asn Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 408
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 408
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Thr Leu Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Pro Ser Leu Lys
 50 55 60
 Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
 65 70 75 80
 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Thr
 85 90 95
 Arg Gly Tyr Gly Tyr Tyr Arg Thr Pro Phe Ala Asn Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 409
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 409

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

<210> 410

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 410

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

<210> 411

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 411

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

Ala Arg Gly Gly 85 Ser His Tyr Tyr Ala 90 Met Asp Tyr Trp Gly 95 Gln Gly
 Thr Leu Val Thr 100 Val Ser Ser 105 110 115

<210> 412
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 412
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110 115
 Thr Leu Val Thr Val Ser Ser

<210> 413
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 413
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110 115
 Thr Leu Val Thr Val Ser Ser

<210> 414
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 414
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 415
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 415
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 416
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 416
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 417
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 417
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser Ala Pro Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 418
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 418
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 419
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 419
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ala
 1 5 10 15
 Ser Val Thr Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Glu Met His Trp Val Lys Gln Thr Pro Val His Gly Leu Glu Trp Ile
 35 40 45
 Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala Tyr Asn Gln Lys Phe
 50 55 60
 Lys Gly Lys Ala Ile Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Thr Ser Pro Asp Tyr Tyr Gly Ser Ser Tyr Pro Leu Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
 115 120 125

<210> 420
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 420
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Glu Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala Tyr Asn Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Ser Pro Asp Tyr Tyr Gly Ser Ser Tyr Pro Leu Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 421
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 421
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Glu Met His Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala Tyr Asn Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Thr Ser Pro Asp Tyr Tyr Gly Ser Ser Tyr Pro Leu Tyr Tyr Ala Met

Asp Tyr Trp ¹⁰⁰Gly Gln Gly Thr ¹⁰⁵Leu Val Thr Val Ser Ser ¹¹⁰
₁₁₅ ₁₂₀ ₁₂₅

<210> 422
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 422
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Glu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala Tyr Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Ser Pro Asp Tyr Tyr Gly Ser Ser Tyr Pro Leu Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 423
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 423
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Glu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala Tyr Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Ser Pro Asp Tyr Tyr Gly Ser Ser Tyr Pro Leu Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 424
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 424

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asp	Tyr
			20					25					30		
Glu	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Thr	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125			

<210> 425

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 425

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asp	Tyr
			20					25					30		
Glu	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	Tyr	Asn	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Thr	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125			

<210> 426

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 426

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

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 427
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 427
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30
Glu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala Tyr Asn Ala Pro Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Thr Ser Pro Asp Tyr Tyr Gly Ser Ser Tyr Pro Leu Tyr Tyr Ala Met
100 105 110
Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 428
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 428
Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30
Glu Met His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala Tyr Asn Pro Ser Leu
50 55 60
Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
65 70 75 80
Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Thr Ser Pro Asp Tyr Tyr Gly Ser Ser Tyr Pro Leu Tyr Tyr Ala Met
100 105 110
Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 429
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 429
Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

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

<210> 430
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 430	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly
1	Ser	Leu	Arg	Leu	5	Ser	Cys	Ala	Ala	10	Ser	Gly	Phe	Thr	Phe	15
	Trp	Met	Gly	Trp	Val	Arg	Gln	Ala	25	Pro	Gly	Lys	Gly	Leu	Glu	Trp
	Ala	Glu	Ile	Arg	Asp	Lys	Val	40	Lys	Asn	His	Ala	Thr	Tyr	Tyr	Ala
	Pro	Val	Lys	Gly	Arg	Phe	Thr	55	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Asn
65	Leu	Tyr	Leu	Gln	Met	70	Asn	Ser	Leu	Lys	Thr	75	Glu	Asp	Thr	Ala
	Tyr	Cys	Arg	Leu	85	Gly	Val	Phe	Asp	Tyr	90	Trp	Gly	Gln	Gly	Thr
	Thr	Val	Ser	100					105						110	
			115													

<210> 431
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 431	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1	Ser	Leu	Arg	Leu	5	Ser	Cys	Ala	Ala	10	Ser	Gly	Phe	Thr	Phe	15
	Trp	Met	Gly	Trp	Val	Arg	Gln	Ala	25	Pro	Gly	Lys	Gly	Leu	Glu	Trp
	Ala	Glu	Ile	Arg	Asp	Lys	Val	40	Lys	Asn	His	Ala	Thr	Tyr	Tyr	Ala
	Ser	Val	Lys	Gly	Arg	Phe	Thr	55	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn
65	Leu	Tyr	Leu	Gln	Met	70	Asn	Ser	Leu	Arg	Ala	75	Glu	Asp	Thr	Ala
	Tyr	Cys	Arg	Leu	85	Gly	Val	Phe	Asp	Tyr	90	Trp	Gly	Gln	Gly	Thr
	Thr	Val	Ser	100					105						110	

115

<210> 432
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 432
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asp Lys Val Lys Asn His Ala Thr Tyr Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Arg Leu Gly Val Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 433
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 433
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asp Lys Val Lys Asn His Ala Thr Tyr Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Arg Leu Gly Val Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 434
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 434
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15

Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
Trp	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Val
Ala	Glu	Ile	Arg	Asp	Lys	Val	Lys	Asn	His	Ala	Thr	Tyr	Tyr	Ala	Gln
Lys	Phe	Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr
Ala	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr
Tyr	Cys	Arg	Leu	Gly	Val	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
Thr	Val	Ser	Ser												

<210> 435
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
Trp	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Val
Ala	Glu	Ile	Arg	Asp	Lys	Val	Lys	Asn	His	Ala	Thr	Tyr	Tyr	Ala	Gln
Lys	Phe	Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr
65				70					75					80	
Val	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr
Tyr	Cys	Arg	Leu	Gly	Val	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
Thr	Val	Ser	Ser												

<210> 436
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
Trp	Met	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
Ala	Glu	Ile	Arg	Asp	Lys	Val	Lys	Asn	His	Ala	Thr	Tyr	Tyr	Ala	Pro
Ser	Phe	Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr
65				70					75					80	
Ala	Tyr	Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr
Tyr	Cys	Arg	Leu	Gly	Val	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
Thr	Val	Ser	Ser												

<210> 437
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 437
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asp Lys Val Lys Asn His Ala Thr Tyr Tyr Ala Pro
 50 55 60
 Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
 65 70 75 80
 Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Arg Leu Gly Val Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 438
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 438
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asp Lys Val Lys Asn His Ala Thr Tyr Tyr Ala Pro
 50 55 60
 Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
 65 70 75 80
 Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Arg Leu Gly Val Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 439
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 439
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Lys Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Asn Thr Tyr

Ala	Met	Asn	20	Trp	Val	Arg	Gln	Ala	25	Pro	Gly	Lys	Gly	Leu	30	Glu	Trp	Ile
		35						40						45				
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	Asp			
	50					55					60							
Ser	Val	Lys	Asp	Arg	Ile	Thr	Cys	Ser	Arg	Asp	Asp	Ser	Glu	Asn	Met			
65					70					75					80			
Phe	Tyr	Leu	Gln	Leu	Ser	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Met	Tyr			
				85					90					95				
Tyr	Cys	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp			
			100					105					110					
Gly	Thr	Gly	Thr	Thr	Val	Thr	Val	Ser	Thr									
		115					120											

<210> 440

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 440

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly			
1				5				10						15				
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Asn	Thr	Tyr			
			20					25					30					
Ala	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile			
		35					40					45						
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	Ala			
	50					55					60							
Pro	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Asn	Thr			
65					70					75				80				
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Val	Tyr			
				85					90					95				
Tyr	Cys	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp			
			100					105					110					
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser									
		115					120											

<210> 441

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 441

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly			
1				5				10						15				
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Asn	Thr	Tyr			
			20					25					30					
Ala	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile			
		35					40					45						
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	Asp			
	50					55					60							
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser			
65					70					75				80				
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr			
				85					90					95				
Tyr	Cys	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp			
			100					105					110					
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser									
		115					120											

<210> 442
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 442
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Gly Asp Gly Asn Leu Trp Tyr Ile Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 443
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 443
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Gly Asp Gly Asn Leu Trp Tyr Ile Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 444
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 444
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Ser Phe Asn Thr Tyr
 20 25 30

Ala	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	Gln
	50					55					60				
Lys	Phe	Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr
65					70					75					80
Ala	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 445

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 445

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Phe	Ser	Phe	Asn	Thr	Tyr
			20					25					30		
Ala	Met	Asn	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	Pro
	50					55					60				
Ser	Phe	Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr
65					70					75					80
Ala	Tyr	Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 446

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 446

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Ser	Phe	Asn	Thr	Tyr
			20					25					30		
Ala	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	Gln
	50					55					60				
Lys	Phe	Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr
65					70					75					80
Val	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 447
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 447
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Ser Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Pro
 50 55 60
 Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
 65 70 75 80
 Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Gly Asp Gly Asn Leu Trp Tyr Ile Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 448
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 448
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Ser Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Pro
 50 55 60
 Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
 65 70 75 80
 Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Gly Asp Gly Asn Leu Trp Tyr Ile Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 449
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 449
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Val Ser Arg Tyr
 20 25 30
 Trp Met His Trp Val Lys Gln Arg Pro Gly Arg Gly Leu Glu Trp Ile

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

<220>
 <223> Synthetic Construct

<400> 452
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Val Ser Arg Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Asp Pro Asn Ser Gly Gly Thr Lys Tyr Asn Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Leu Thr Gly Thr Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 453
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 453
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Val Ser Arg Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Asp Pro Asn Ser Gly Gly Thr Lys Tyr Asn Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Val Leu Thr Gly Thr Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 454
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 454
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Val Ser Arg Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly	Arg	Ile	Asp	Pro	Asn	Ser	Gly	Gly	Thr	Lys	Tyr	Asn	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Val	Leu	Thr	Gly	Thr	Asp	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
			100					105					110		
Thr	Val	Ser	Ser												
		115													

<210> 455
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 456
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 457
 <211> 116

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 457
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Val Ser Arg Tyr
20 25 30
Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Asp Pro Asn Ser Gly Gly Thr Lys Tyr Asn Ala Pro Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Val Leu Thr Gly Thr Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110
Thr Val Ser Ser
115

<210> 458
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 458
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Val Ser Arg Tyr
20 25 30
Trp Met His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Asp Pro Asn Ser Gly Gly Thr Lys Tyr Asn Pro Ser Leu
50 55 60
Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
65 70 75 80
Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Val Leu Thr Gly Thr Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110
Thr Val Ser Ser
115

<210> 459
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Xaa = Glutamic acid or Glutamine

<400> 459
Xaa Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Lys Gly
1 5 10 15

Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Asn	Thr	Tyr
			20					25					30		
Ala	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	Asp
		50				55					60				
Ser	Val	Lys	Asp	Arg	Phe	Thr	Cys	Ser	Arg	Asp	Asp	Ser	Glu	Asn	Met
65					70					75				80	
Phe	Tyr	Leu	Gln	Leu	Ser	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Ile	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp
			100					105					110		
Gly	Thr	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 460

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 460

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Lys	Gly
1				5					10					15	
Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Asn	Thr	Tyr
			20					25					30		
Ala	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	Asp
		50				55					60				
Ser	Val	Lys	Asp	Arg	Phe	Thr	Cys	Ser	Arg	Asp	Asp	Ser	Glu	Asn	Met
65					70					75				80	
Phe	Tyr	Leu	Gln	Leu	Ser	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Met	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp
			100					105					110		
Gly	Thr	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 461

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 461

Gln	Val	Gln	Leu	Gln	Gln	Ser	Gly	Ala	Glu	Leu	Val	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Met	Ser	Cys	Lys	Thr	Ser	Gly	Tyr	Pro	Phe	Ser	Asn	Phe
			20					25					30		
Trp	Ile	Thr	Trp	Val	Lys	Gln	Arg	Pro	Gly	Gln	Gly	Leu	Val	Trp	Ile
		35					40					45			
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Ser	Asn	Tyr	Asn	Glu	Lys	Phe
	50					55					60				
Lys	Thr	Lys	Ala	Thr	Leu	Thr	Val	Asp	Thr	Ser	Ser	Ser	Thr	Ala	Tyr
65					70					75				80	
Met	His	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Phe	Cys
				85					90					95	
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Thr								
		115					120								

<210> 462
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 462
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Pro Phe Ser Asn Phe
 20 25 30
 Trp Ile Thr Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Asp Ile Tyr Pro Gly Ser Asp Asn Ser Asn Tyr Asn Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 463
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 463
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Pro Phe Ser Asn Phe
 20 25 30
 Trp Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Asp Ile Tyr Pro Gly Ser Asp Asn Ser Asn Tyr Asn Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 464
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 464
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Pro Phe Ser Asn Phe
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Trp	Ile	Thr	20	Val	Arg	Gln	Ala	25	Pro	Gly	Gln	Gly	Leu	30	Glu	Trp	Ile
		35					40						45				
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Ser	Asn	Tyr	Asn	Gln	Lys	Phe		
	50					55					60						
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr	Val	Tyr		
65					70					75					80		
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
			85						90					95			
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln		
			100					105					110				
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser										
		115					120										

<210> 465
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	465																
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly		
1				5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Pro	Phe	Ser	Asn	Phe		
			20					25					30				
Trp	Ile	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile		
		35					40					45					
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Ser	Asn	Tyr	Asn	Asp	Ser	Val		
	50					55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	Leu	Tyr		
65					70					75				80			
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
			85						90					95			
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln		
			100					105					110				
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser										
		115					120										

<210> 466
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	466																
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg		
1				5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Pro	Phe	Ser	Asn	Phe		
			20					25					30				
Trp	Ile	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile		
		35					40					45					
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Ser	Asn	Tyr	Asn	Asp	Ser	Val		
	50					55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr		
65					70					75				80			
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
			85						90					95			
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln		
			100					105					110				
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser										
		115					120										

<210> 467
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 467
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Pro Phe Ser Asn Phe
 20 25 30
 Trp Ile Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Asp Ile Tyr Pro Gly Ser Asp Asn Ser Asn Tyr Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 468
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 468
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Pro Phe Ser Asn Phe
 20 25 30
 Trp Ile Thr Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Asp Ile Tyr Pro Gly Ser Asp Asn Ser Asn Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 469
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 469
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Pro Phe Ser Asn Phe
 20 25 30

Trp	Ile	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Ser	Asn	Tyr	Asn	Ala	Pro	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Asn	Thr	Leu	Tyr
	65				70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 470
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Leu	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Tyr	Pro	Phe	Ser	Asn	Phe
			20					25					30		
Trp	Ile	Thr	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35				40						45			
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Ser	Asn	Tyr	Asn	Pro	Ser	Leu
	50					55					60				
Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser
	65				70					75					80
Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 471
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 6, 7, 11, 19, 20, 24, 72, 83, 87, 88, 90, 98
 <223> Xaa = Glutamic acid or Glutamine

<220>
 <221> VARIANT
 <222> 18
 <223> Xaa = Any Amino Acid

Glu	Val	Gln	Leu	Val	Xaa	Xaa	Gly	Arg	Gly	Xaa	Ser	Gln	Gly	Lys	Gly
1				5					10					15	
Ser	Xaa	Xaa	Xaa	Gly	Arg	Ala	Xaa	Arg	Cys	Leu	Thr	Ser	Asn	Thr	Tyr
			20					25					30		
Thr	Gln	Thr	Gly	Val	Pro	Gln	Gly	Pro	Gly	Lys	Gly	Arg	Glu	Trp	Glu
		35				40						45			
Ser	Val	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Phe	Ser	Thr	Leu	Tyr	Ala	Asp
	50					55					60				

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

<210> 472
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Leu	Thr	Ser	Asn	Thr	Tyr
			20					25					30		
Thr	Gln	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Glu
		35					40					45			
Ser	Val	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Phe	Ser	Thr	Leu	Tyr	Ala	Ala
	50					55				60					
Pro	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Asn	Thr
65					70				75					80	
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Val	Tyr
			85						90					95	
Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Arg	Tyr	Pro	Gly	Val	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 473
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Leu	Thr	Ser	Asn	Thr	Tyr
			20					25					30		
Thr	Gln	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Glu
		35					40					45			
Ser	Val	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Phe	Ser	Thr	Leu	Tyr	Ala	Asp
	50					55				60					
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr
65					70				75					80	
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
			85						90					95	
Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Arg	Tyr	Pro	Gly	Val	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 474
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 474

```
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Ser Asn Thr Tyr
 20      25      30
Thr Gln Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Glu
 35      40      45
Ser Val Ile Arg Ser Lys Ser Asn Asn Phe Ser Thr Leu Tyr Ala Asp
 50      55      60
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65      70      75      80
Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85      90      95
Tyr Cys Val Arg His Lys Ser Asn Arg Tyr Pro Gly Val Tyr Trp Gly
 100     105     110
Gln Gly Thr Leu Val Thr Val Ser Ser
 115     120
```

<210> 475

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 475

```
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1      5      10      15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Leu Thr Ser Asn Thr Tyr
 20      25      30
Thr Gln Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Glu
 35      40      45
Ser Val Ile Arg Ser Lys Ser Asn Asn Phe Ser Thr Leu Tyr Ala Gln
 50      55      60
Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr
 65      70      75      80
Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85      90      95
Tyr Cys Val Arg His Lys Ser Asn Arg Tyr Pro Gly Val Tyr Trp Gly
 100     105     110
Gln Gly Thr Leu Val Thr Val Ser Ser
 115     120
```

<210> 476

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 476

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Ser Asn Thr Tyr
 20      25      30
Thr Gln Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Glu
 35      40      45
Ser Val Ile Arg Ser Lys Ser Asn Asn Phe Ser Thr Leu Tyr Ala Asp
 50      55      60
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser
 65      70      75      80
 85      90      95
 100     105     110
 115     120
```

65	Leu	Tyr	Leu	Gln	Met	70	Asn	Ser	Leu	Arg	Ala	75	Glu	Asp	Thr	Ala	Val	80	Tyr
					85						90						95		
	Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Arg	Tyr	Pro	Gly	Val	Tyr	Trp	Gly			
				100					105										
	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser										
			115					120											

<210> 477
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 477	Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5						10					15	
	Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Leu	Thr	Ser	Asn	Thr	Tyr
			20					25						30		
	Thr	Gln	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Glu
			35					40					45			
	Ser	Val	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Phe	Ser	Thr	Leu	Tyr	Ala	Gln
		50				55					60					
	Lys	Phe	Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr
65					70					75						80
	Ala	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr
				85					90						95	
	Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Arg	Tyr	Pro	Gly	Val	Tyr	Trp	Gly
			100					105						110		
	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
			115					120								

<210> 478
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 478	Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5						10					15	
	Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Leu	Thr	Ser	Asn	Thr	Tyr
			20					25						30		
	Thr	Gln	Thr	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Glu
			35					40					45			
	Ser	Val	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Phe	Ser	Thr	Leu	Tyr	Ala	Pro
		50				55					60					
	Ser	Phe	Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr
65					70					75						80
	Ala	Tyr	Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr
				85					90						95	
	Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Arg	Tyr	Pro	Gly	Val	Tyr	Trp	Gly
			100					105						110		
	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
			115					120								

<210> 479
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 479

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Leu	Thr	Ser	Asn	Thr	Tyr
			20					25					30		
Thr	Gln	Thr	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Glu
			35				40					45			
Ser	Val	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Phe	Ser	Thr	Leu	Tyr	Ala	Pro
	50					55					60				
Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln
65				70						75				80	
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Arg	Tyr	Pro	Gly	Val	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 480

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 480

Gln	Leu	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Leu	Thr	Ser	Asn	Thr	Tyr
			20					25					30		
Thr	Gln	Thr	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Glu
			35				40					45			
Ser	Val	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Phe	Ser	Thr	Leu	Tyr	Ala	Pro
	50					55					60				
Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln
65				70						75				80	
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Arg	Tyr	Pro	Gly	Val	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 481

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 481

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

Val	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Thr	Glu	Asp	Thr	Gly	Ile	Tyr
				85					90					95	
Tyr	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Tyr	Tyr	Leu	Arg	Phe	Ala	Tyr	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala						
		115					120								

<210> 482
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	482														
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
			20					25					30		
Trp	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Trp
		35					40					45			
Val	Ala	Glu	Ile	Arg	Asn	Lys	Val	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Ala
	50					55				60					
Pro	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Asn	Thr
65					70					75				80	
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Tyr	Tyr	Leu	Arg	Phe	Ala	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 483
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	483														
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
			20					25					30		
Trp	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Trp
		35					40					45			
Val	Ala	Glu	Ile	Arg	Asn	Lys	Val	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Asp
	50					55				60					
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser
65					70					75				80	
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Tyr	Tyr	Leu	Arg	Phe	Ala	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 484
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 484

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5				10						15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala	
			20					25					30			
Trp	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Trp	
		35					40					45				
Val	Ala	Glu	Ile	Arg	Asn	Lys	Val	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Asp	
	50					55				60						
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	
65					70				75					80		
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	
				85					90					95		
Tyr	Cys	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Tyr	Tyr	Leu	Arg	Phe	Ala	Trp	
			100					105					110			
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120									

<210> 485

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 485

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg	
1				5				10						15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala	
			20					25					30			
Trp	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Trp	
		35					40					45				
Val	Ala	Glu	Ile	Arg	Asn	Lys	Val	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Asp	
	50					55				60						
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	
65					70				75					80		
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	
				85					90					95		
Tyr	Cys	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Tyr	Tyr	Leu	Arg	Phe	Ala	Trp	
			100					105					110			
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120									

<210> 486

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 486

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

Tyr	Cys	Cys	Thr	85	Ser	Leu	Tyr	Asp	Gly	90	Tyr	Tyr	Leu	Arg	Phe	95	Ala	Trp
			100						105						110			
Gly	Gln	Gly	Thr	115	Leu	Val	Thr	Val	Ser	120	Ser							

<210> 487
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
			20					25					30		
Trp	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Trp
		35					40					45			
Val	Ala	Glu	Ile	Arg	Asn	Lys	Val	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Gln
	50				55					60					
Lys	Phe	Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr
65				70					75					80	
Ala	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Tyr	Tyr	Leu	Arg	Phe	Ala	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 488
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
			20					25					30		
Trp	Met	Asp	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Trp
		35					40					45			
Val	Ala	Glu	Ile	Arg	Asn	Lys	Val	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Pro
	50				55					60					
Ser	Phe	Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr
65				70					75					80	
Ala	Tyr	Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr
				85					90					95	
Tyr	Cys	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Tyr	Tyr	Leu	Arg	Phe	Ala	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 489
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 489
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Asp Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Trp
 35 40 45
 Val Ala Glu Ile Arg Asn Lys Val Asn Asn His Ala Thr Tyr Tyr Pro
 50 55 60
 Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
 65 70 75 80
 Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Cys Thr Ser Leu Tyr Asp Gly Tyr Tyr Leu Arg Phe Ala Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 490
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 490
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Asp Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Trp
 35 40 45
 Val Ala Glu Ile Arg Asn Lys Val Asn Asn His Ala Thr Tyr Tyr Pro
 50 55 60
 Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
 65 70 75 80
 Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Cys Thr Ser Leu Tyr Asp Gly Tyr Tyr Leu Arg Phe Ala Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 491
 <211> 102
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 36, 67, 81, 83
 <223> Xaa = Glutamic acid or Glutamine

<400> 491
 Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Thr Tyr Ser Met Asn
 1 5 10 15
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala His Ile
 20 25 30
 Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala Asp Ser Val Lys
 35 40 45
 Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Glu Ser Met Leu Tyr Leu
 Page 155

	50				55					60									
Gln	Met	Xaa	Asn	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Val				
65					70					75					80				
Xaa	His	Xaa	Ser	Asn	Asn	Tyr	Pro	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr				
				85					90					95					
Leu	Val	Thr	Val	Ser	Ala														
			100																

<210> 492
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly				
1				5					10					15					
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asn	Thr	Tyr				
			20					25					30						
Ser	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val				
		35					40					45							
Ala	His	Ile	Lys	Thr	Lys	Xaa	Asn	Asn	Phe	Ala	Thr	Phe	Tyr	Ala	Ala				
	50					55				60									
Pro	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Asn	Thr				
65					70					75					80				
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Val	Tyr				
				85					90					95					
Tyr	Cys	Val	Xaa	His	Xaa	Ser	Asn	Asn	Tyr	Pro	Phe	Ala	Tyr	Trp	Gly				
			100					105					110						
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser											
		115					120												

<210> 493
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

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

Gln Gly Thr ¹⁰⁰Leu Val Thr Val Ser ¹⁰⁵Ser 110
¹¹⁵ ¹²⁰

<210> 494
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

<400> 494
 Glu Val Gln Leu ⁵Leu Glu Ser Gly Gly ¹⁰Gly Leu Val Gln Pro Gly Gly
¹ Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Thr Tyr
²⁰ Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
³⁵ Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala Asp
⁵⁰ Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
⁶⁵ Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
⁸⁵ Tyr Cys Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr Trp Gly
¹⁰⁰ Gln Gly Thr Leu Val Thr Val Ser Ser
¹¹⁵ ¹²⁰

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

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

<400> 495
 Gln Val Gln Leu Val Glu Ser Gly Gly ¹⁰Gly Val Val Gln Pro Gly Arg
¹ Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Thr Tyr
²⁰ Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
³⁵ Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala Asp
⁵⁰ Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
⁶⁵ Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
⁸⁵ Tyr Cys Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr Trp Gly
¹⁰⁰ Gln Gly Thr Leu Val Thr Val Ser Ser
¹¹⁵ ¹²⁰

<210> 496
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

<400> 496
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Phe Asn Thr Tyr
 20 25 30
 Ser Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr
 65 70 75 80
 Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 497
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

<400> 497
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Phe Asn Thr Tyr
 20 25 30
 Ser Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr
 65 70 75 80
 Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 498
 <211> 121
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 55, 100, 102

<223> Xaa = Glutamic acid or Glutamine

<400> 498

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Phe	Thr	Phe	Asn	Thr	Tyr
			20					25					30		
Ser	Met	Asn	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ala	His	Ile	Lys	Thr	Lys	Xaa	Asn	Asn	Phe	Ala	Thr	Phe	Tyr	Ala	Pro
	50					55				60					
Ser	Phe	Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr
65					70					75					80
Ala	Tyr	Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr
			85						90					95	
Tyr	Cys	Val	Xaa	His	Xaa	Ser	Asn	Asn	Tyr	Pro	Phe	Ala	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 499

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 55, 100, 102

<223> Xaa = Glutamic acid or Glutamine

<400> 499

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Phe	Thr	Phe	Asn	Thr	Tyr
			20					25					30		
Ser	Met	Asn	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ala	His	Ile	Lys	Thr	Lys	Xaa	Asn	Asn	Phe	Ala	Thr	Phe	Tyr	Ala	Pro
	50					55				60					
Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln
65					70					75					80
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr
			85						90					95	
Tyr	Cys	Val	Xaa	His	Xaa	Ser	Asn	Asn	Tyr	Pro	Phe	Ala	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 500

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

<400> 500
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Thr Phe Asn Thr Tyr
 20 25 30
 Ser Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala Pro
 50 55 60
 Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
 65 70 75 80
 Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 501
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 91
 <223> Xaa = Glutamic acid or Glutamine

<400> 501
 Gln Val Gln Leu Gln Gln Ser Gly Ala Val Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Tyr
 20 25 30
 Trp Ile His Trp Val Lys Gln Arg Pro Gly Arg Gly Pro Glu Trp Ile
 35 40 45
 Gly Arg Asn Asp Pro Asn Ser Gly Gly Ser Asn Tyr Asn Glu Lys Phe
 50 55 60
 Arg Asn Lys Ala Ile Leu Thr Val Asp Lys Pro Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Xaa Ala Val Tyr Tyr Cys
 85 90 95
 Val Arg Thr Asn Trp Asp Gly Asp Phe Trp Gly Gln Gly Thr Thr Leu
 100 105 110
 Thr Val Ser
 115

<210> 502
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 502
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Thr	Tyr
Trp	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
Gly	Arg	Asn	Asp	Pro	Asn	Ser	Gly	Gly	Ser	Asn	Tyr	Asn	Gln	Lys	Phe
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr	Val	Tyr
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
Val	Arg	Thr	Asn	Trp	Asp	Gly	Asp	Phe	Trp	Gly	Gln	Gly	Thr	Leu	Val
Thr	Val	Ser	Ser												

<210> 503
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 504
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 505
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 505
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Tyr
 20 25 30
 Trp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Asn Asp Pro Asn Ser Gly Gly Ser Asn Tyr Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Arg Thr Asn Trp Asp Gly Asp Phe Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 506
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 506
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Thr Tyr
 20 25 30
 Trp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Asn Asp Pro Asn Ser Gly Gly Ser Asn Tyr Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Arg Thr Asn Trp Asp Gly Asp Phe Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 507
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 507
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Thr Tyr

<210> 510
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 510
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Tyr
 20 25 30
 Trp Ile His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Asn Asp Pro Asn Ser Gly Gly Ser Asn Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Arg Thr Asn Trp Asp Gly Asp Phe Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 511
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 511
 Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Asn Tyr
 20 25 30
 Trp Met Ser Trp Val Lys Gln Arg Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gln Ile Tyr Pro Gly Asp Gly Asp Thr Lys Tyr Asn Gly Lys Phe
 50 55 60
 Glu Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
 85 90 95
 Ser Arg Glu Lys Gly Ala Asp Tyr Tyr Gly Ser Thr Tyr Ser Ala Trp
 100 105 110
 Phe Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
 115 120 125

<210> 512
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 512
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ala Phe Ser Asn Tyr
 20 25 30

Trp	Met	Ser	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Lys	Tyr	Asn	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
				85					90					95	
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
			100					105					110		
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
		115					120					125			

<210> 513
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr
			20					25					30		
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Lys	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr	Val	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
			100					105					110		
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
		115					120					125			

<210> 514
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr
			20					25					30		
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Lys	Tyr	Asn	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
			100					105					110		
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
		115					120					125			

<210> 515
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 515
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Asn Tyr
 20 25 30
 Trp Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Gln Ile Tyr Pro Gly Asp Gly Asp Thr Lys Tyr Asn Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ser Arg Glu Lys Gly Ala Asp Tyr Tyr Gly Ser Thr Tyr Ser Ala Trp
 100 105 110
 Phe Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 516
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 516
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Ser Asn Tyr
 20 25 30
 Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gln Ile Tyr Pro Gly Asp Gly Asp Thr Lys Tyr Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ser Arg Glu Lys Gly Ala Asp Tyr Tyr Gly Ser Thr Tyr Ser Ala Trp
 100 105 110
 Phe Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 517
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 517
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Ser Asn Tyr
 20 25 30
 Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile

<210>	518
<211>	126
<212>	PRT
<213>	Artificial Sequence

<400>	518															
Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu	
1				5					10					15		
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr	
			20					25					30			
Trp	Met	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	
		35					40					45				
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Lys	Tyr	Asn	Pro	Ser	Leu	
	50					55					60					
Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser	
65					70					75					80	
Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
				85					90					95		
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp	
			100					105					110			
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125				

<210>	519
<211>	126
<212>	PRT
<213>	Artificial Sequence

<400>	519															
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr	
			20					25					30			
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	
		35					40					45				
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Lys	Tyr	Asn	Ala	Pro	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75					80	
Leu	Gln	Met	Asn	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
				85					90					95		
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp	
			100					105					110			
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125				

<210> 520

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

<220>
 <223> Synthetic Construct

<400> 520
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ala Phe Ser Asn Tyr
 20 25 30
 Trp Met Ser Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gln Ile Tyr Pro Gly Asp Gly Asp Thr Lys Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ser Arg Glu Lys Gly Ala Asp Tyr Tyr Gly Ser Thr Tyr Ser Ala Trp
 100 105 110
 Phe Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 521
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 521
 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
 20 25 30
 Trp Met Asn Trp Val Lys Gln Arg Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Glu Phe
 50 55 60
 Arg Val Arg Ala Thr Leu Thr Ala Asp Thr Ser Ser Thr Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
 85 90 95
 Ala Arg Leu Leu Arg Asn Gln Pro Gly Glu Ser Tyr Ala Met Asp Tyr
 100 105 110
 Trp Gly Gln Gly Ala Ser Val Thr Val Ser Ser
 115 120

<210> 522
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 522
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ala Phe Ser Ser Ser
 20 25 30
 Trp Met Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly	Arg	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Asn	Tyr	Asn	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Leu	Leu	Arg	Asn	Gln	Pro	Gly	Glu	Ser	Tyr	Ala	Met	Asp	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 523
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Ser	Ser
			20					25					30		
Trp	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Arg	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Asn	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr	Val	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Leu	Leu	Arg	Asn	Gln	Pro	Gly	Glu	Ser	Tyr	Ala	Met	Asp	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 524
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Ser	Ser
			20					25					30		
Trp	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Arg	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Asn	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Leu	Leu	Arg	Asn	Gln	Pro	Gly	Glu	Ser	Tyr	Ala	Met	Asp	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 525
 <211> 123

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 525
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Ser Ser Ser
20 25 30
Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Leu Leu Arg Asn Gln Pro Gly Glu Ser Tyr Ala Met Asp Tyr
100 105 110
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 526
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 526
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Ser Ser Ser
20 25 30
Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Leu Leu Arg Asn Gln Pro Gly Glu Ser Tyr Ala Met Asp Tyr
100 105 110
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 527
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 527
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Ser Ser Ser
20 25 30
Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Asp Ser Val

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 530

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Gln
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Tyr	Ala	Phe	Ser	Ser	Ser
			20					25					30		
Trp	Met	Asn	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Arg	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Asn	Tyr	Asn	Pro	Ser	Leu
	50					55					60				
Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser
65					70					75					80
Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Leu	Leu	Arg	Asn	Gln	Pro	Gly	Glu	Ser	Tyr	Ala	Met	Asp	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 531

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 531

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

<210> 532

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 532

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ile	Phe	Thr	Thr	Tyr
			20					25					30		
Trp	Ile	His	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Arg	Ile	Asp	Pro	Asn	Asn	Gly	Asp	Thr	Asn	Tyr	Asn	Pro	Ser	Phe
	50					55					60				

Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
				85					90					95	
Val	Met	Thr	Gly	Thr	Asp	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
			100					105					110		
Thr	Val	Ser	Ser												
		115													

<210> 533
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 534
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 535
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 535

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

<210> 536

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 536

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

<210> 537

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 537

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Ile	Phe	Thr	Thr	Tyr
			20					25					30		
Trp	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Arg	Ile	Asp	Pro	Asn	Asn	Gly	Asp	Thr	Asn	Tyr	Asn	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	Leu	Tyr

<220>
<223> Synthetic Construct

<400> 540
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ile Phe Thr Tyr
20 25 30
Trp Ile His Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Asp Pro Asn Asn Gly Asp Thr Asn Tyr Asn Pro Ser Leu
50 55 60
Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
65 70 75 80
Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Val Met Thr Gly Thr Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110
Thr Val Ser Ser
115

<210> 541
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 541
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Met Ser Cys Lys Thr Ser Gly Tyr Pro Phe Ser Asn Phe
20 25 30
Trp Ile Thr Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Val Trp Ile
35 40 45
Gly Asp Ile Tyr Pro Gly Ser Asp Asn Arg Asn Phe Asn Glu Arg Phe
50 55 60
Lys Thr Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr
65 70 75 80
Met His Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
85 90 95
Ala Arg Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 542
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 542
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Pro Phe Ser Asn Phe
20 25 30
Trp Ile Thr Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Asp Ile Tyr Pro Gly Ser Asp Asn Arg Asn Phe Asn Pro Ser Phe
50 55 60
Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu	Gln	Trp	Ser	Ser ⁸⁵	Leu	Lys	Ala	Ser	Asp ⁹⁰	Thr	Ala	Met	Tyr	Tyr ⁹⁵	Cys
Ala	Arg	Glu	Ala ¹⁰⁰	Tyr	Tyr	Thr	Asn	Pro ¹⁰⁵	Gly	Phe	Ala	Tyr	Trp ¹¹⁰	Gly	Gln
Gly	Thr	Leu ¹¹⁵	Val	Thr	Val	Ser	Ser ¹²⁰								

<210> 543
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 544
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 545
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 545

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Pro	Phe	Ser	Asn	Phe
			20					25					30		
Trp	Ile	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Arg	Asn	Phe	Asn	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 546

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 546

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Pro	Phe	Ser	Asn	Phe
			20					25					30		
Trp	Ile	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Arg	Asn	Phe	Asn	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 547

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 547

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

Ala	Arg	Glu	Ala	85	Tyr	Tyr	Thr	Asn	Pro	90	Gly	Phe	Ala	Tyr	Trp	95	Gly	Gln
			100						105						110			
Gly	Thr	Leu	Val	115	Thr	Val	Ser	Ser										
								120										

<210> 548
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Tyr	Pro	Phe	Ser	Asn	Phe
			20					25					30		
Trp	Ile	Thr	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
			35				40					45			
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Arg	Asn	Phe	Asn	Pro	Ser	Leu
	50					55					60				
Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser
65					70					75					80
Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
			115				120								

<210> 549
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Pro	Phe	Ser	Asn	Phe
			20					25					30		
Trp	Ile	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
			35				40					45			
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Arg	Asn	Phe	Asn	Ala	Pro	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
			115				120								

<210> 550
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 550
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Pro Phe Ser Asn Phe
 20 25 30
 Trp Ile Thr Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Asp Ile Tyr Pro Gly Ser Asp Asn Arg Asn Phe Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 551
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 551
 Glu Val Gln Leu Val Glu Ser Gly Gly Arg Leu Val Gln Pro Lys Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
 50 55 60
 Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Glu Ser Met
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Met Tyr
 85 90 95
 Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ala
 115 120

<210> 552
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 552
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Ala
 50 55 60
 Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
 85 90 95

Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 553
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 553
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 554
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 554
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 555
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 555
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 556
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 556
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr
 65 70 75 80
 Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 557
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 557
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr
 65 70 75 80
 Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
 100 105 110
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Gly Gln Gly Thr Leu Val Thr Val Ser Ser 110
115 100 105 120

<210> 558
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 558
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Asn Phe Asn Thr Tyr
20 25 30
Ala Met Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Pro
50 55 60
Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr
65 70 75 80
Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr
85 90 95
Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
100 105 110
Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 559
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 559
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Asn Phe Asn Thr Tyr
20 25 30
Ala Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Pro
50 55 60
Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
65 70 75 80
Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
85 90 95
Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
100 105 110
Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 560
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 560

Gln	Leu	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Phe	Asn	Phe	Asn	Thr	Tyr
			20					25					30		
Ala	Met	Asn	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	Pro
	50					55					60				
Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln
65					70					75					80
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Tyr	Ser	Asn	Tyr	Gly	Trp	Gly	Phe	Ala	Tyr	Trp
			100				105						110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 561
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 95
 <223> Xaa = Glutamic acid or Glutamine

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

<210> 562
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Ser	Asp	Tyr
			20					25					30		
Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35				40						45			
Gly	Tyr	Ile	Tyr	Pro	Asn	Asn	Gly	Asp	Asn	Gly	Tyr	Asn	Gln	Lys	Phe
	50				55				60						
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr	Val	Tyr

65 Met Glu Leu Ser Ser 70 Leu Arg Ser Glu Asp 75 Thr Ala Val Tyr Tyr 80 Cys
 Ala Arg Arg Gly Tyr Tyr Gly Gly Ser 90 Tyr Asp Tyr Trp Gly Gln Gly
 Thr Leu Val Thr Val Ser Ser 105 110 115

<210> 563
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 563
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Ser Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser 115

<210> 564
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 564
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser 115

<210> 565
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 565
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Ser Asp Tyr
20 25 30
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 566
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 566
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Ser Asp Tyr
20 25 30
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 567
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 567
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Ser Asp Tyr
20 25 30
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90
 Ala Arg Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 568
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 568
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Ser Asp Tyr
 20 25 30
 Tyr Ile His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 569
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 569
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Ser Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn Ala Pro Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 570
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 570

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

<210> 571

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 571

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

<210> 572

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 572

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

Tyr	Cys	Val	Arg	85	Lys	Ser	Asn	Lys	90	Tyr	Pro	Phe	Val	Tyr	95	Trp	Gly
			100	His				105						110			
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser									
		115					120										

<210> 573
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Arg	Phe	Asn	Thr	Tyr
			20					25					30		
Ala	Met	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Glu
		35					40					45			
Gly	Val	Ile	Arg	Arg	Lys	Ser	Ser	Asn	Phe	Ala	Thr	Leu	Tyr	Ala	Asp
	50				55						60				
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr
65				70						75				80	
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Lys	Tyr	Pro	Phe	Val	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 574
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Arg	Phe	Asn	Thr	Tyr
			20					25					30		
Ala	Met	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Glu
		35					40					45			
Gly	Val	Ile	Arg	Arg	Lys	Ser	Ser	Asn	Phe	Ala	Thr	Leu	Tyr	Ala	Asp
	50				55						60				
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser
65				70						75				80	
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Lys	Tyr	Pro	Phe	Val	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 575
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 575
 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Arg Phe Asn Thr Tyr
 20 25 30
 Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Glu
 35 40 45
 Gly Val Ile Arg Arg Lys Ser Ser Asn Phe Ala Thr Leu Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Lys Ser Asn Lys Tyr Pro Phe Val Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 576
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 576
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Arg Phe Asn Thr Tyr
 20 25 30
 Ala Met Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Glu
 35 40 45
 Gly Val Ile Arg Arg Lys Ser Ser Asn Phe Ala Thr Leu Tyr Ala Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr
 65 70 75 80
 Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Lys Ser Asn Lys Tyr Pro Phe Val Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 577
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 577
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Arg Phe Asn Thr Tyr
 20 25 30
 Ala Met Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Glu
 35 40 45
 Gly Val Ile Arg Arg Lys Ser Ser Asn Phe Ala Thr Leu Tyr Ala Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr
 65 70 75 80
 Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95

Tyr Cys Val Arg His Lys Ser Asn Lys Tyr Pro Phe Val Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 578
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 578
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Arg Phe Asn Thr Tyr
 20 25 30
 Ala Met Thr Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Glu
 35 40 45
 Gly Val Ile Arg Arg Lys Ser Ser Asn Phe Ala Thr Leu Tyr Ala Pro
 50 55 60
 Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr
 65 70 75 80
 Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr
 85 90 95
 Tyr Cys Val Arg His Lys Ser Asn Lys Tyr Pro Phe Val Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 579
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 579
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Arg Phe Asn Thr Tyr
 20 25 30
 Ala Met Thr Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Glu
 35 40 45
 Gly Val Ile Arg Arg Lys Ser Ser Asn Phe Ala Thr Leu Tyr Ala Pro
 50 55 60
 Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
 65 70 75 80
 Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Lys Ser Asn Lys Tyr Pro Phe Val Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 580
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 580
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Arg Phe Asn Thr Tyr
 20 25 30
 Ala Met Thr Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Glu
 35 40 45
 Gly Val Ile Arg Arg Lys Ser Asn Phe Ala Thr Leu Tyr Ala Pro
 50 55 60
 Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
 65 70 75 80
 Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Arg His Lys Ser Asn Lys Tyr Pro Phe Val Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 581
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 581
 Lys Ser Ser Gln Ser Val Phe Tyr Ser Ser Asn Gln Lys Asn Tyr Leu
 1 5 10 15
 Ala

<210> 582
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 582
 His Gln Tyr Leu Ser Ser Leu Thr
 1 5

<210> 583
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 583
 Ser Gln Ser Thr His Val Pro Pro Thr
 1 5

<210> 584
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 584
Tyr Ser Phe Thr Gly Tyr Tyr Met His
1 5

<210> 585
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 585
Val Ala Glu Ile Arg Asn Lys Ile Asn Asn His Ala Thr Tyr Tyr Ala
1 5 10 15

<210> 586
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 586
Ile Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys
1 5 10

<210> 587
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 587
Ile Gly Arg Val Asn Pro Asn Asn Gly Gly Thr Ser Tyr Asn
1 5 10

<210> 588
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 588
Thr Ser Leu Tyr Asp Gly Ser Tyr Leu Arg Phe Ala Tyr
1 5 10

<210> 589
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 589
Val Leu Thr Gly Gly Tyr Phe Asp Tyr
1 5

<210> 590
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 590
Gln Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly Glu Lys Val
1 5 10 15
Thr Leu Ser Cys
20

<210> 591
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 591
Gln Thr Gln Val Phe Leu Ser Leu Leu Leu Trp Val Ser Gly Thr Cys
1 5 10 15
Gly Asn Ile Met Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala
20 25 30
Gly Glu Lys Val Thr Leu Ser Cys
35 40

<210> 592
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 592
Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly
1 5 10 15
Glu Lys Val Thr Met Ser Cys
20

<210> 593
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 593
Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Ser
1 5 10 15

<210> 594
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 594

Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Phe	Gly	Thr	Asp	Phe	Thr
1				5					10				15		
Leu	Thr	Ile	Ser	Ser	Val	Gln	Gly	Glu	Asp	Leu	Ala	Val	Tyr	Tyr	Cys
			20					25					30		

<210> 595

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 595

Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
1				5					10				15		
Leu	Thr	Ile	Asn	Ser	Val	Gln	Ala	Glu	Asp	Leu	Ala	Val	Tyr	Tyr	Cys
			20					25					30		

<210> 596

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 596

Gly	Val	Gln	Ser	Glu	Val	Lys	Phe	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val
1				5					10					15	
Gln	Pro	Gly	Gly	Ser	Met	Lys	Leu	Ser	Cys	Thr	Ala	Ser	Gly		
			20					25					30		

<210> 597

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 597

Gln	Val	Gln	Leu	Gln	Gln	Ser	Gly	Pro	Glu	Leu	Val	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Ile	Ser	Cys	Lys	Thr	Ser	Gly						
			20					25							

<210> 598

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 598

Gln	Val	Gln	Leu	Gln	Gln	Ser	Gly	Pro	Asp	Leu	Val	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly						
			20					25							

<210> 599
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 599
 Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser
 1 5 10 15
 Ser Val Ser Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Gly Ile
 20 25 30
 Tyr Tyr Cys
 35

<210> 600
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 600
 Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Arg Ser Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
 20 25 30
 Tyr Tyr Cys
 35

<210> 601
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 601
 Gln Lys Phe Lys Gly Lys Ala Ile Leu Thr Val Asp Lys Ser Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
 20 25 30
 Tyr Tyr Cys
 35

<210> 602
 <211> 129
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 602
 Gln Thr Gln Val Phe Leu Ser Leu Leu Leu Trp Val Ser Gly Thr Cys
 1 5 10 15
 Gly Asn Ile Met Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala
 20 25 30
 Gly Glu Lys Val Thr Leu Ser Cys Lys Ser Ser Gln Ser Val Phe Tyr
 35 40 45
 Ser Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly

<220>

<223> Synthetic Construct

<400> 605

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

<210> 606

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 606

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

<210> 607

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 607

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

<210> 608
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 608
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Gln Ser Val Phe Tyr Ser
 20 25 30
 Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln
 85 90 95
 Tyr Leu Ser Ser Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 609
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 609
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Val Phe Tyr Ser
 20 25 30
 Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys His Gln
 85 90 95
 Tyr Leu Ser Ser Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 610
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 610
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Val Phe Tyr Ser
 20 25 30
 Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val

	50					55				60					
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr
65					70					75					80
Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	His	Gln
				85					90					95	
Tyr	Leu	Ser	Ser	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 611
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 611															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Val	Phe	Tyr	Ser
			20					25					30		
Ser	Asn	Gln	Lys	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys
		35					40					45			
Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val
	50					55					60				
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Phe	Thr
65					70					75					80
Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	His	Gln
				85					90					95	
Tyr	Leu	Ser	Ser	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 612
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 612															
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Leu	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Val	Phe	Tyr	Ser
			20					25					30		
Ser	Asn	Gln	Lys	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ala	Pro	Arg	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Ile
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr
65					70					75					80
Ile	Ser	Arg	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	His	Gln
				85					90					95	
Tyr	Leu	Ser	Ser	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 613
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 613

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

Lys

<210> 614
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Lys

<210> 615
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Lys

<210> 616
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 616
Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
1 5 10 15
Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Ser Asn Gln Lys Asn Cys Leu Ala Trp Phe Gln Gln Arg Pro Gly Gln
35 40 45
Ser Pro Arg Arg Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 617
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 617
Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Ser Asn Gln Lys Asn Cys Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45
Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 618
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 618
Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly

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

<210> 619
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 619	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Val	Gly
	1				5					10					15	
	Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser
				20					25					30		
	Ser	Asn	Gln	Lys	Asn	Cys	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys
			35					40					45			
	Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val
		50					55					60				
	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr
	65					70					75					80
	Ile	Ser	Ser	Leu	Gln	Pro	Asp	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
				85						90					95	
	Tyr	Tyr	Ser	Tyr	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100						105					110		
	Lys															

<210> 620
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 620	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
	1				5					10					15	
	Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser
				20					25					30		
	Ser	Asn	Gln	Lys	Asn	Cys	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys
			35					40					45			
	Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val
		50					55					60				
	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Phe	Thr
	65					70					75					80
	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
				85						90					95	
	Tyr	Tyr	Ser	Tyr	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100						105					110		
	Lys															

<210> 621
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 621
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asn Gln Lys Asn Cys Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 622
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 622
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asn Gln Lys Asn Cys Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 623
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 623
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu	Arg	Ala	Thr	Leu	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser
			20					25					30		
Ser	Asn	Gln	Lys	Asn	Cys	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ala	Pro	Arg	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Ile
	50				55						60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr
65					70					75					80
Ile	Ser	Arg	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln
				85					90					95	
Tyr	Tyr	Ser	Tyr	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110		
Lys															

<210> 624
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 625
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 626
 <211> 112

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 626
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ser Gln Ser
85 90 95
Thr His Val Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 627
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 627
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15
Glu Arg Ala Thr Ile Asn Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Pro
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Ser Gln Ser
85 90 95
Thr His Val Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 628
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 628
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala
35 40 45
Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Ile Pro
50 55 60
Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80
Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Ser Gln Ser
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Thr	His	Val	Pro	85	Thr	Phe	Gly	Gln	90	Gly	Thr	Lys	Val	Glu	95	Ile	Lys
			100					105						110			

<210> 629
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 629

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

<210> 630
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 630

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

<210> 631
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 631

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Val	His	Ser
			20					25					30		

Asn	Gly	Asn	Thr	Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala
		35					40					45			
Pro	Lys	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Ser	Gly	Val	Pro
	50					55					60				
Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile
65					70					75					80
Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Ser	Gln	Ser
				85					90					95	
Thr	His	Val	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 632
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 633
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 634
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 634

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

<210> 635

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 635

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

<210> 636

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 636

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

Gln Gly Thr ¹⁰⁰Leu Val Thr Val Ser ¹⁰⁵Ser 110
₁₁₅ ₁₂₀

<210> 637
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 637
 Glu Val Gln Leu ⁵Leu Glu Ser Gly Gly ¹⁰Gly Leu Val Gln Pro Gly Gly
₁ ₅ ₁₀ ₁₅
 Ser Leu Arg ²⁰Leu Ser Cys Ala Ala Ser ²⁵Gly Phe Asn Phe ³⁰Asn Thr Tyr
₂₀ ₂₅ ₃₀
 Ala Met Lys ³⁵Trp Val Arg Gln Ala ⁴⁰Pro Gly Lys Gly ⁴⁵Leu Glu Trp Ile
₃₅ ₄₀ ₄₅
 Ala Arg ⁵⁰Ile Arg Ser Asn ⁵⁵Ser Asn Asp Tyr Ala ⁶⁰Thr Asn Tyr Ser Asp
₅₀ ₅₅ ₆₀
 Ser Val Lys Gly Arg ⁷⁰Phe Thr Ile Ser Arg ⁷⁵Asp Asn Ser Lys Asn Thr
₆₅ ₇₀ ₇₅ ₈₀
 Leu Tyr Leu Gln ⁸⁵Met Asn Ser Leu Arg ⁹⁰Ala Glu Asp Thr Ala ⁹⁵Val Tyr
₈₅ ₉₀ ₉₅
 Tyr Cys Val Gly ¹⁰⁰His Lys Ile Asn ¹⁰⁵Asn Tyr Pro Phe Ala ¹¹⁰His Trp Gly
₁₀₀ ₁₀₅ ₁₁₀
 Gln Gly Thr ¹¹⁵Leu Val Thr Val Ser ¹²⁰Ser
₁₁₅ ₁₂₀

<210> 638
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 638
 Gln Val Gln Leu ⁵Val Glu Ser Gly Gly ¹⁰Gly Val Val Gln Pro Gly Arg
₁ ₅ ₁₀ ₁₅
 Ser Leu Arg ²⁰Leu Ser Cys Ala Ala Ser ²⁵Gly Phe Asn Phe ³⁰Asn Thr Tyr
₂₀ ₂₅ ₃₀
 Ala Met Lys ³⁵Trp Val Arg Gln Ala ⁴⁰Pro Gly Lys Gly ⁴⁵Leu Glu Trp Ile
₃₅ ₄₀ ₄₅
 Ala Arg ⁵⁰Ile Arg Ser Asn ⁵⁵Ser Asn Asp Tyr Ala ⁶⁰Thr Asn Tyr Ser Asp
₅₀ ₅₅ ₆₀
 Ser Val Lys Gly Arg ⁷⁰Phe Thr Ile Ser Arg ⁷⁵Asp Asn Ser Lys Asn Thr
₆₅ ₇₀ ₇₅ ₈₀
 Leu Tyr Leu Gln ⁸⁵Met Asn Ser Leu Arg ⁹⁰Ala Glu Asp Thr Ala ⁹⁵Val Tyr
₈₅ ₉₀ ₉₅
 Tyr Cys Val Gly ¹⁰⁰His Lys Ile Asn ¹⁰⁵Asn Tyr Pro Phe Ala ¹¹⁰His Trp Gly
₁₀₀ ₁₀₅ ₁₁₀
 Gln Gly Thr ¹¹⁵Leu Val Thr Val Ser ¹²⁰Ser
₁₁₅ ₁₂₀

<210> 639
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 639

Glu 1	Val	Gln	Leu 5	Val	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly
Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Asn	Phe	Asn 30	Thr	Tyr
Ala	Met	Lys 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Ile
Ala	Arg	Ile	Arg	Ser	Asn	Ser 55	Asn	Asp	Tyr	Ala	Thr 60	Asn	Tyr	Ser	Asp
Ser 65	Val	Lys	Gly	Arg	Phe 70	Thr	Ile	Ser	Arg	Asp 75	Asn	Ala	Lys	Asn	Ser 80
Leu	Tyr	Leu	Gln	Met 85	Asn	Ser	Leu	Arg	Ala 90	Glu	Asp	Thr	Ala	Val 95	Tyr
Tyr	Cys	Val	Gly 100	His	Lys	Ile	Asn	Asn 105	Tyr	Pro	Phe	Ala	His 110	Trp	Gly
Gln	Gly	Thr 115	Leu	Val	Thr	Val	Ser 120	Ser							

<210> 640
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu 1	Val	Gln	Leu 5	Val	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly
Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Asn	Phe	Asn 30	Thr	Tyr
Ala	Met	Lys 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Ile
Ala	Arg	Ile	Arg	Ser	Asn	Ser 55	Asn	Asp	Tyr	Ala	Thr 60	Asn	Tyr	Ser	Asp
Ser 65	Val	Lys	Gly	Arg	Phe 70	Thr	Ile	Ser	Arg	Asp 75	Asn	Ala	Lys	Asn	Ser 80
Leu	Tyr	Leu	Gln	Met 85	Asn	Ser	Leu	Arg	Ala 90	Glu	Asp	Thr	Ala	Val 95	Tyr
Tyr	Cys	Val	Gly 100	His	Lys	Ile	Asn	Asn 105	Tyr	Pro	Phe	Ala	His 110	Trp	Gly
Gln	Gly	Thr 115	Leu	Val	Thr	Val	Ser 120	Ser							

<210> 641
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 642
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 642
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Lys Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Asn Ser Asn Asp Tyr Ala Thr Asn Tyr Ser Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr
 65 70 75 80
 Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Val Gly His Lys Ile Asn Asn Tyr Pro Phe Ala His Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 643
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 643
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Lys Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Asn Ser Asn Asp Tyr Ala Thr Asn Tyr Ser Pro
 50 55 60
 Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr
 65 70 75 80
 Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr
 85 90 95
 Tyr Cys Val Gly His Lys Ile Asn Asn Tyr Pro Phe Ala His Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 644
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 644
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu

1	Thr	Leu	Ser	Leu	5	Thr	Cys	Thr	Val	Ser	10	Gly	Phe	Asn	Phe	Asn	15	Thr	Tyr
				20						25						30			
Ala	Met	Lys	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile				
		35					40						45						
Ala	Arg	Ile	Arg	Ser	Asn	Ser	Asn	Asp	Tyr	Ala	Thr	Asn	Tyr	Ser	Pro				
		50				55					60								
Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln				
65					70					75					80				
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr				
				85					90					95					
Tyr	Cys	Val	Gly	His	Lys	Ile	Asn	Asn	Tyr	Pro	Phe	Ala	His	Trp	Gly				
			100					105					110						
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser											
		115					120												

<210> 645

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 645

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Gln				
1				5					10					15					
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Phe	Asn	Phe	Asn	Thr	Tyr				
			20					25					30						
Ala	Met	Lys	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile				
		35					40					45							
Ala	Arg	Ile	Arg	Ser	Asn	Ser	Asn	Asp	Tyr	Ala	Thr	Asn	Tyr	Ser	Pro				
		50				55					60								
Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln				
65					70					75					80				
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr				
				85					90					95					
Tyr	Cys	Val	Gly	His	Lys	Ile	Asn	Asn	Tyr	Pro	Phe	Ala	His	Trp	Gly				
			100					105					110						
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser											
		115					120												

<210> 646

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 646

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

115

120

125

<210> 647
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 647
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asn Lys Ile Asn Asn His Ala Thr Tyr Tyr Ala Ala
 50 55 60
 Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Thr Ser Leu Tyr Asp Gly Ser Tyr Leu Arg Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 648
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 648
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asn Lys Ile Asn Asn His Ala Thr Tyr Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Thr Ser Leu Tyr Asp Gly Ser Tyr Leu Arg Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 649
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 649
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
Trp	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
Ala	Glu	Ile	Arg	Asn	Lys	Ile	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Ala	Asp
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
Tyr	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Ser	Tyr	Leu	Arg	Phe	Ala	Tyr	Trp
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						

<210> 650
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
Trp	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
Ala	Glu	Ile	Arg	Asn	Lys	Ile	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Ala	Asp
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr
65				70					75					80	
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
Tyr	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Ser	Tyr	Leu	Arg	Phe	Ala	Tyr	Trp
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						

<210> 651
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala
Trp	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
Ala	Glu	Ile	Arg	Asn	Lys	Ile	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Ala	Asp
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser
65				70					75					80	
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
Tyr	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Ser	Tyr	Leu	Arg	Phe	Ala	Tyr	Trp
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						

<210> 652
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 652
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Asp Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asn Lys Ile Asn Asn His Ala Thr Tyr Tyr Ala Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr
 65 70 75 80
 Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Thr Ser Leu Tyr Asp Gly Ser Tyr Leu Arg Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 653
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 653
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Phe Ser Asp Ala
 20 25 30
 Trp Met Asp Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asn Lys Ile Asn Asn His Ala Thr Tyr Tyr Ala Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr
 65 70 75 80
 Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Thr Ser Leu Tyr Asp Gly Ser Tyr Leu Arg Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 654
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 654
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Thr Phe Ser Asp Ala
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Trp	Met	Asp	20	Trp	Val	Arg	Gln	Met	25	Pro	Gly	Lys	Gly	Leu	30	Glu	Trp	Val
		35						40						45				
Ala	Glu	Ile	Arg	Asn	Lys	Ile	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Ala	Pro			
	50					55					60							
Ser	Phe	Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr			
65					70					75					80			
Ala	Tyr	Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr			
				85					90					95				
Tyr	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Ser	Tyr	Leu	Arg	Phe	Ala	Tyr	Trp			
			100					105					110					
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser									
		115					120											

<210> 655

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 655

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu			
1				5					10					15				
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala			
			20					25					30					
Trp	Met	Asp	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val			
		35				40						45						
Ala	Glu	Ile	Arg	Asn	Lys	Ile	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Ala	Pro			
	50					55					60							
Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln			
65					70					75				80				
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr			
				85					90					95				
Tyr	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Ser	Tyr	Leu	Arg	Phe	Ala	Tyr	Trp			
			100					105					110					
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser									
		115					120											

<210> 656

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 656

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Gln			
1				5					10					15				
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Ala			
			20					25					30					
Trp	Met	Asp	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val			
		35				40						45						
Ala	Glu	Ile	Arg	Asn	Lys	Ile	Asn	Asn	His	Ala	Thr	Tyr	Tyr	Ala	Pro			
	50					55					60							
Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln			
65					70					75				80				
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr			
				85					90					95				
Tyr	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Ser	Tyr	Leu	Arg	Phe	Ala	Tyr	Trp			
			100					105					110					
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser									
		115					120											

<210> 657
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 657
 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys Gln Lys Phe
 50 55 60
 Lys Gly Lys Ala Thr Leu Thr Val Asp Arg Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Ser Val Thr Val Ser Ser
 115

<210> 658
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 658
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 659
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 659
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 660
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 660
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 661
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 661
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 662
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 662
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 663
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 663
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 664
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 664
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile

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

<220>
 <223> Synthetic Construct

<400> 667
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 668
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 668
 Gln Val Gln Leu Gln Gln Ser Gly Pro Asp Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
 20 25 30
 Tyr Met His Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45
 Gly Arg Val Asn Pro Asn Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe
 50 55 60
 Lys Gly Lys Ala Ile Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Val Leu Thr Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
 100 105 110
 Thr Val Ser Ser
 115

<210> 669
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 669
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly	Arg	Val	Asn	Pro	Asn	Asn	Gly	Gly	Thr	Ser	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr	Val	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Val	Leu	Thr	Gly	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
			100					105					110		
Thr	Val	Ser	Ser												
		115													

<210> 670
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 671
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 672
 <211> 116

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 672
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
20 25 30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
Gly Arg Val Asn Pro Asn Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Val Leu Thr Gly Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110
Thr Val Ser Ser
115

<210> 673
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 673
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
20 25 30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Arg Val Asn Pro Asn Asn Gly Gly Thr Ser Tyr Asn Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Val Leu Thr Gly Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110
Thr Val Ser Ser
115

<210> 674
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 674
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
20 25 30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Arg Val Asn Pro Asn Asn Gly Gly Thr Ser Tyr Asn Asp Ser Val

	50				55					60									
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	Leu	Tyr				
65					70					75					80				
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys				
				85					90					95					
Val	Leu	Thr	Gly	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val				
			100					105					110						
Thr	Val	Ser	Ser																
			115																

<210> 675
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 676
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 677
 <211> 116
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 677

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

<210> 678

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 678

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

<210> 679

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 679

```
Gln Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly Glu Lys Val
 1      5      10      15
Thr Leu Ser Cys Lys Ser Ser Gln Ser Val Phe Tyr Ser Ser Asn Gln
 20      25      30
Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys
 35      40      45
Leu Leu Ile Ser Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp Arg
 50      55      60
```

Phe	Thr	Gly	Ser	Gly	Phe	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser
65					70				75					80	
Val	Gln	Gly	Glu	Asp	Leu	Ala	Val	Tyr	Tyr	Cys	His	Gln	Tyr	Leu	Ser
				85					90					95	
Ser	Leu	Thr	Phe	Gly	Ala	Gly	Thr	Lys	Leu	Glu	Leu	Lys			
			100					105							

<210> 680
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 681
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 682
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Asp	Val	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Leu	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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

<210> 683
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 683	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15		
	Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Val	Phe	Tyr	Ser
			20					25					30			
	Ser	Asn	Gln	Lys	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys
		35						40				45				
	Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val
		50				55					60					
	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr
65				70						75					80	
	Ile	Ser	Ser	Leu	Gln	Pro	Asp	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	His	Gln
				85					90					95		
	Tyr	Leu	Ser	Ser	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105						110		

<210> 684
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 684	Asp	Ile	Gln	Leu	Thr	Gln	Ser	Pro	Ser	Phe	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15		
	Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Val	Phe	Tyr	Ser
			20					25					30			
	Ser	Asn	Gln	Lys	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys
		35						40				45				
	Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val
		50				55					60					
	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr
65				70						75					80	
	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	His	Gln
				85					90					95		
	Tyr	Leu	Ser	Ser	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105						110		

<210> 685
 <211> 112
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 685

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

<210> 686

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 686

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

<210> 687

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 687

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

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

<210> 688
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 688
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Val Phe Tyr Ser
20 25 30
Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45
Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln
85 90 95
Tyr Leu Ser Ser Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 689
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 689
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Val Phe Tyr Ser
20 25 30
Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45
Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
50 55 60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys His Gln
85 90 95
Tyr Leu Ser Ser Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 690
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 690
Ser Gln Asp Val Ser Thr Thr Val Ala
1 5

<210> 691

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

<220>
<223> Synthetic Construct

<400> 691
Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu
1 5 10

<210> 692
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 692
Ser Gln Gly Val Ser Thr Ala Val Ala
1 5

<210> 693
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 693
Ser Gln Asp Val Arg Thr Ala Val Ala
1 5

<210> 694
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 694
Ser Glu Asn Val Val Thr Tyr Val Ser
1 5

<210> 695
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 695
Ser Ala Ser Tyr Arg Tyr Thr
1 5

<210> 696
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 696
Trp Ala Ser Thr Arg His Thr
1 5

<210> 697
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 697
Gly Ala Ser Asn Arg Tyr Thr
1 5

<210> 698
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 698
Gln Gln His Tyr Ser Thr Pro Pro Thr
1 5

<210> 699
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 699
Phe Gln Gly Ser His Val Pro Phe Thr
1 5

<210> 700
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 700
His Gln His Tyr Ser Thr Tyr Thr
1 5

<210> 701
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 701
Gln Gln His Tyr Gly Thr Pro Pro Trp Thr
1 5 10

<210> 702
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 702
Gly Gln Gly Tyr Ser Tyr Pro Tyr Thr
1 5

<210> 703
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 703
Ser Arg Phe Thr Phe Ser Ser Tyr Ala Met Ser
1 5 10

<210> 704
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 704
Ser Ala Phe Ser Leu Thr Asn Tyr Ala Val His
1 5 10

<210> 705
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 705
Ser Arg Phe Thr Phe Ser Ser Tyr Ala Val Ser
1 5 10

<210> 706
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 706
Val Ala Ala Ile Ser Gly Gly Gly Arg Tyr Thr Tyr Tyr Pro
Page 233

1 5 10

<210> 707
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 707
Leu Gly Val Ile Trp Ser Gly Gly Ser Thr Ala Phe Asn
1 5 10

<210> 708
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 708
Val Ala Thr Ile Ser Gly Gly Gly Arg Tyr Thr Tyr Tyr Pro
1 5 10

<210> 709
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 709
Ala Arg His Tyr Asp Gly Tyr Leu Asp Tyr
1 5 10

<210> 710
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 710
Ala Thr His Tyr Tyr Arg Ser Thr Tyr Ala Phe Ser Tyr
1 5 10

<210> 711
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 711
Asp Ile Val Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15
Asp Arg Val Ser Ile Thr Cys Lys Ala
20 25

<210> 712
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 712
Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser
20 25

<210> 713
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 713
Asp Ile Val Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Ile Gly
1 5 10 15
Ala Arg Val Ser Ile Thr Cys Lys Ala
20 25

<210> 714
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 714
Asp Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly
1 5 10 15
Glu Arg Val Thr Leu Thr Cys Lys Ala
20 25

<210> 715
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 715
Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Phe Gly Thr Asp Phe Thr
1 5 10 15
Phe Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys
20 25 30

<210> 716
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 716

Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Tyr	Thr
1				5					10					15	
Leu	Thr	Ile	Ser	Ser	Val	Gln	Ala	Glu	Asp	Leu	Ala	Leu	Tyr	Tyr	Cys
			20					25					30		

<210> 717

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 717

Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser	Ala	Thr	Asp	Phe	Thr
1				5					10					15	
Leu	Thr	Ile	Ser	Ser	Val	Gln	Ala	Glu	Asp	Leu	Ala	Asp	Tyr	His	Cys
			20					25					30		

<210> 718

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 718

Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
1				5					10					15	
Phe	Thr	Ile	Ser	Ser	Val	Gln	Ala	Glu	Asp	Leu	Ala	Val	Tyr	Tyr	Cys
			20					25					30		

<210> 719

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 719

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Lys	Leu	Ser	Cys	Glu	Ala								
			20												

<210> 720

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 720

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Gln	Pro	Ser	Gln
1				5					10					15	
Ser	Leu	Ser	Ile	Ile	Cys	Thr	Val								
			20												

<210> 721
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 721
 Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp
 1 5 10

<210> 722
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 722
 Asp Ser Met Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
 1 5 10 15
 Phe Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Cys
 35

<210> 723
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 723
 Ala Ala Phe Ile Ser Arg Leu Asn Ile Ser Lys Asp Asn Ser Lys Ser
 1 5 10 15
 Gln Val Phe Phe Lys Met Asn Ser Leu Gln Ser Asp Asp Thr Ala Ile
 20 25 30
 Tyr Tyr Cys
 35

<210> 724
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 724
 Asp Ile Val Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Val Gly
 1 5 10 15
 Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Ser Thr Thr
 20 25 30
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ser Ala Ser Tyr Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60
 Ser Gly Phe Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Val Gln Ala
 65 70 75 80
 Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln His Tyr Ser Thr Pro Pro

Thr Phe Gly Gly⁸⁵ Thr Lys Leu Glu⁹⁰ Ile Lys
100 105 95

<210> 725
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 725
Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 726
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 726
Asp Ile Val Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15
Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Gly Val Ser Thr Ala
20 25 30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45
Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60
Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Val Gln Ala
65 70 75 80
Glu Asp Leu Ala Leu Tyr Tyr Cys His Gln His Tyr Ser Thr Tyr Thr
85 90 95
Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 727
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 727
Asp Ile Val Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Ile Gly
1 5 10 15
Ala Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Arg Thr Ala
20 25 30

Val	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Lys	Leu	Leu	Ile
		35					40					45			
Tyr	Ser	Ala	Ser	Tyr	Arg	Tyr	Thr	Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly
	50					55					60				
Ser	Gly	Phe	Gly	Thr	Asp	Phe	Thr	Phe	Thr	Ile	Ser	Ser	Val	Gln	Ala
65					70					75				80	
Glu	Asp	Leu	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	His	Tyr	Gly	Thr	Pro	Pro
				85					90					95	
Trp	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys				
			100					105							

<210> 728
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 729
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 730
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 730

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

<210> 731

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 731

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

<210> 732

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 732

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

Thr Leu Val¹⁰⁰ Thr Val Ser Ala¹⁰⁵ 110
¹¹⁵

<210> 733
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 733
 Glu Val Gln Leu Val⁵ Glu Ser Gly Gly¹⁰ Gly Leu Val Lys Pro Gly Gly¹⁵
¹ Ser Leu Lys²⁰ Leu Ser Cys Glu Ala Ser²⁵ Arg Phe Thr Phe Ser³⁰ Ser Tyr
 Ala Val Ser³⁵ Trp Val Arg Gln Thr⁴⁰ Pro Glu Lys Arg Leu Glu Trp Val⁴⁵
 Ala Thr Ile Ser Gly Gly⁵⁵ Arg Tyr Thr Tyr Tyr⁶⁰ Pro Asp Ser Met⁶⁵
 Lys Gly Arg Phe Thr Ile⁷⁰ Ser Arg Asp Asn Ala Lys Asn Phe Leu Tyr⁸⁰
⁶⁵ Leu Gln Met Ser⁸⁵ Ser Leu Arg Ser Glu Asp⁹⁰ Thr Ala Met Tyr Tyr⁹⁵ Cys
 Ala Arg His Tyr Asp Gly Tyr Leu Asp¹⁰⁵ Tyr Trp Gly Gln Gly¹¹⁰ Thr Thr¹¹⁵
 Leu Thr Val Ser Ser

<210> 734
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 734
 Ser Gln Ser Leu Val⁵ His Ser Asn Gly¹⁰ Asn Thr Tyr Leu His

<210> 735
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 735
 Ser Gln Ser Leu Val⁵ His Ser Asn Gly¹⁰ Asp Thr Tyr Leu His

<210> 736
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 736
 Ser Glu Ser Val Asp Tyr His Gly Thr Ser Leu Met Gln
 Page 241

1 5 10

<210> 737
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 5
<223> Xaa = Glutamic acid or Glutamine

<400> 737
Ser Glu Asn Ile Xaa Tyr Ser Leu Ala
1 5

<210> 738
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 738
Arg Ala Ser Gln Ser Ile Gly Thr Ser Ile His
1 5 10

<210> 739
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 739
Lys Val Ser Asn Arg Val Ser
1 5

<210> 740
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 740
Lys Val Ser Asp Arg Phe Ser
1 5

<210> 741
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 741
Ala Ala Ser Asn Val Glu Ser
1 5

<210> 742
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 742
Asn Ala Asn Ser Leu Glu Asp
1 5

<210> 743
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 743
Phe Ala Ser Glu Ser Ile Ser
1 5

<210> 744
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 744
Gln Gln Asn Arg Lys Ile Leu Trp Thr
1 5

<210> 745
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 745
Lys Gln Ala Tyr Asp Val Pro Trp Thr
1 5

<210> 746
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 746
Gln Gln Thr Asn Thr Trp Pro Ile Thr
1 5

<210> 747
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 747
Ser Gly Tyr Thr Phe Thr Asp Phe Tyr Met Asn
1 5 10

<210> 748
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 748
Ser Gly Tyr Thr Phe Thr Ala Tyr Trp Met His
1 5 10

<210> 749
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 749
Ser Gly Phe Asn Ile Lys Asn Thr Tyr Ile His
1 5 10

<210> 750
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 750
Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Ile His
1 5 10

<210> 751
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 751
Ser Gly Tyr Thr Phe Thr Ser Ala Thr Met His
1 5 10

<210> 752

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

<220>
<223> Synthetic Construct

<400> 752
Tyr Ser Phe Thr Asp Tyr Asn Ile His
1 5

<210> 753
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 753
Phe Thr Leu Ser Asn Tyr Trp Met Asn
1 5

<210> 754
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 754
Tyr Thr Phe Thr Asp Tyr Asn Ile His
1 5

<210> 755
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 755
Ile Gly Asp Ile Asn Pro Asn Asn Gly His Thr Thr Tyr Asn
1 5 10

<210> 756
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 756
Ile Gly Arg Thr His Pro Ser Asp Ser Asp Thr Asn Tyr Asn
1 5 10

<210> 757
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 757
Ile Gly Arg Ile Asp Pro Ala Ile Gly Asn Thr Asn Tyr Ala
1 5 10

<210> 758
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 758
Ile Gly Arg Ile His Pro Ser Asp Ser Asp Ile Asn Tyr Asn
1 5 10

<210> 759
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 759
Ile Gly Tyr Ile Asn Pro Asn Ser Gly Tyr Ser Lys Tyr Asn
1 5 10

<210> 760
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 760
Ile Gly Tyr Ile Asn Pro Asn Ser Asp Asn Thr Arg Tyr Ile
1 5 10

<210> 761
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 761
Val Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala
1 5 10 15

<210> 762
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 762
Ile Gly Tyr Ile Asn Pro Asn Asn Gly Gly Thr Thr Tyr Asn
1 5 10

<210> 763
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 763
Ala Arg Glu Pro Tyr Ser Tyr Gly Ser Ser Pro Trp Tyr Phe Leu Val
1 5 10 15

<210> 764
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 764
Ala Thr Tyr Ser Asn Tyr Val Thr Gly Ala Met Asp Ser
1 5 10

<210> 765
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 765
Val Ser Pro Gly Met Asp Tyr
1 5

<210> 766
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 766
Val Lys Thr Gly Thr Ser Phe Ala Ser
1 5

<210> 767
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 767
Ala Arg Trp Gly Ile Asp Gly Asn Tyr Gly Gly Gly Phe Phe Asp Val
Page 247

1	5	10	15
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<210> 768
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 768
 Thr Arg Gly Phe Ser Asn Leu Gly Ala Met Asp Tyr
 1 5 10

<210> 769
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 769
 Thr Gly Ala Gly Gly Asn His Glu Asn Tyr
 1 5 10

<210> 770
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 770
 Ala Thr Thr Tyr Val Ser Phe Ser Tyr
 1 5

<210> 771
 <211> 25
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <220>
 <221> VARIANT
 <222> 1, 4
 <223> Xaa = Glutamic acid or Glutamine

 <400> 771
 Xaa Val Val Xaa Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Phe Ser Cys Arg Ser
 20 25

<210> 772
 <211> 25
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> Synthetic Construct

<400> 772

Asn	Ile	Val	Met	Thr	Gln	Ser	Pro	Lys	Ser	Met	Ser	Met	Ser	Val	Gly
1				5					10					15	
Glu	Arg	Val	Thr	Leu	Thr	Cys	Lys	Ala							
			20					25							

<210> 773

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 773

Asp	Val	Val	Met	Thr	Gln	Thr	Pro	Leu	Ser	Leu	Pro	Val	Ser	Leu	Gly
1				5					10					15	
Asp	Gln	Ala	Ser	Ile	Ser	Cys	Arg	Ser							
			20					25							

<210> 774

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 774

Asp	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ala	Val	Ser	Leu	Gly
1				5					10					15	
Gln	Arg	Ala	Thr	Ile	Ser	Cys	Arg	Ala							
			20					25							

<210> 775

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 14

<223> Xaa = Glutamic acid or Glutamine

<400> 775

Asp	Ile	Gln	Met	Thr	Gln	Phe	Pro	Ala	Ser	Leu	Ala	Ala	Xaa	Val	Gly
1				5					10					15	
Glu	Ser	Val	Thr	Ile	Thr	Cys	Arg	Ala							
			20					25							

<210> 776

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 776

Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly Glu
 1 5 10 15
 Arg Val Ser Phe Ser Cys
 20

<210> 777
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 777
 Trp Phe Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Phe
 1 5 10 15

<210> 778
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 778
 Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
 1 5 10 15

<210> 779
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 779
 Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Ile Tyr
 1 5 10 15

<210> 780
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 780
 Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile Lys
 1 5 10 15

<210> 781
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 781
 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 Page 250

1 5 10 15
 Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys
 20 25 30

<210> 782
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 782
 Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Ser
 1 5 10 15
 Leu Asn Ile His Pro Val Glu Glu Asp Asp Ile Ala Met Tyr Phe Cys
 20 25 30

<210> 783
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 783
 Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser
 1 5 10 15
 Met Lys Ile Asn Ser Met Gln Pro Glu Asp Thr Ala Ile Tyr Phe Cys
 20 25 30

<210> 784
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 784
 Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Asn Ile Asn Ser Val Glu Ser Glu Asp Ile Ala Asp Tyr Tyr Cys
 20 25 30

<210> 785
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Glutamic acid or Glutamine

<400> 785
 Glu Val Gln Xaa Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Ala
 20

<210> 786
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 786
Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala
20

<210> 787
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 787
Gln Val Gln Leu Gln Gln Ser Val Ala Glu Leu Val Arg Pro Gly Ala
1 5 10 15
Ser Val Lys Leu Ser Cys Thr Ala
20

<210> 788
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 788
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala
20

<210> 789
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1, 2, 3, 4, 5
<223> Xaa = Any Amino Acid

<400> 789
Xaa Xaa Xaa Xaa Xaa Gln Ser Gly Thr Glu Leu Ala Arg Pro Gly Ala
1 5 10 15
Ser Val Lys Met Pro Cys Lys Ala
20

<210> 790

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

<220>
<223> Synthetic Construct

<400> 790
Gln Val Gln Leu Gln Gln Ser Gly Arg Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Met Ser Cys Met Ser Ser Gly
20 25

<210> 791
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 791
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Met Lys Leu Ser Cys Val Ala Ser Gly
20 25

<210> 792
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 792
Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Gln Met Ser Cys Glu Ala Ser Gly
20 25

<210> 793
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 793
Trp Val Lys Gln Ser Leu Gly Lys Ser Leu Glu Trp
1 5 10

<210> 794
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 794
Trp Val Lys Glu Lys Pro Gly Gln Gly Leu Glu Trp
1 5 10

<210> 795
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 795
Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp
1 5 10

<210> 796
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 796
Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp
1 5 10

<210> 797
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 797
Trp Val Ile Gln Ser His Gly Glu Ser Leu Glu Trp
1 5 10

<210> 798
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 27
<223> Xaa = Glutamic acid or Glutamine

<400> 798
Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Xaa Glu Glu Ser Ala Val
20 25 30
Tyr Tyr Cys
35

<210> 799
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 799
His Asn Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val
20 25 30
Tyr Tyr Cys
35

<210> 800
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 800
Pro Lys Phe Gln Ala Thr Ala Thr Ile Thr Val Ala Thr Ser Ser Asn
1 5 10 15
Ser Ala Tyr Leu Gln Leu Ser Ser Leu Ala Ser Glu Asp Thr Ala Ile
20 25 30
Tyr Tyr Cys
35

<210> 801
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 801
Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met Gln Ile Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala
20 25 30
Val Tyr Tyr Cys
35

<210> 802
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 802
Gln Lys Phe Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Glu Ser Ala Val
20 25 30
Tyr Tyr Cys
35

<210> 803
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 803
Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asn Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
20 25 30
Tyr Tyr Cys
35

<210> 804
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 804
Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser
1 5 10 15
Ser Val Tyr Leu Gln Met Asn Asn Leu Arg Ala Val Asp Thr Gly Ile
20 25 30
Tyr Tyr Cys
35

<210> 805
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 805
Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asn Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Ile Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
20 25 30
Tyr His Cys
35

<210> 806
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 806
Arg Gly Thr Gly Thr Thr Val Thr Val
1 5

<210> 807
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 807

Trp Gly His Gly Thr Ser Val Thr Val Ser Ser
 1 5 10

<210> 808
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 808
 Trp Ser Gln Gly Thr Leu Val Thr Val Ser
 1 5 10

<210> 809
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1, 4
 <223> Xaa = Glutamic acid or Glutamine

<400> 809
 Xaa Val Val Xaa Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Phe Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Phe Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Lys Leu Leu Ile Phe Lys Val Ser Asn Arg Val Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
 85 90 95
 Thr His Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 100 105 110

<210> 810
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 810
 Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly
 1 5 10 15
 Glu Arg Val Thr Leu Thr Cys Lys Ala Ser Glu Asn Val Val Thr Tyr
 20 25 30
 Val Ser Trp Tyr Gln Gln Lys Pro Glu Gln Ser Pro Lys Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60
 Ser Gly Ser Ala Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala
 65 70 75 80
 Glu Asp Leu Ala Asp Tyr His Cys Gly Gln Gly Tyr Ser Tyr Pro Tyr
 85 90 95

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

<210> 811
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 811
Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asp Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Arg Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
85 90 95
Thr His Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105 110

<210> 812
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 812
Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asp Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
85 90 95
Thr His Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105 110

<210> 813
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 813
Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
1 5 10 15
Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Glu Ser Val Asp Tyr His
20 25 30
Gly Thr Ser Leu Met Gln Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro

Lys	Leu	35	Ile	Tyr	Ala	Ala	40	Ser	Asn	Val	Glu	Ser	45	Gly	Val	Pro	Ala
50						55						60					
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Ser	Leu	Asn	Ile	His		
65					70					75					80		
Pro	Val	Glu	Glu	Asp	Asp	Ile	Ala	Met	Tyr	Phe	Cys	Gln	Gln	Asn	Arg		
			85						90					95			
Lys	Ile	Leu	Trp	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys			
		100						105					110				

<210> 814
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 14, 30
 <223> Xaa = Glutamic acid or Glutamine

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

<210> 815
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 816
 <211> 112

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 816
Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
85 90 95
Thr His Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105 110

<210> 817
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 4, 88
<223> Xaa = Glutamic acid or Glutamine

<400> 817
Glu Val Gln Xaa Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Phe
20 25 30
Tyr Met Asn Trp Val Lys Gln Ser Leu Gly Lys Ser Leu Glu Trp Ile
35 40 45
Gly Asp Ile Asn Pro Asn Asn Gly His Thr Thr Tyr Asn Gln Lys Phe
50 55 60
Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Thr Xaa Glu Glu Ser Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Glu Pro Tyr Ser Tyr Gly Ser Ser Pro Trp Tyr Phe Leu Val
100 105 110
Arg Gly Thr Gly Thr Thr Val Thr Val
115 120

<210> 818
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 818
Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ala Tyr
20 25 30

Trp	Met	His	Trp	Val	Lys	Glu	Lys	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Arg	Thr	His	Pro	Ser	Asp	Ser	Asp	Thr	Asn	Tyr	Asn	His	Asn	Phe
	50					55					60				
Lys	Gly	Lys	Ala	Thr	Leu	Thr	Val	Asp	Lys	Ser	Ser	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Gln	Leu	Asn	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Thr	Tyr	Ser	Asn	Tyr	Val	Thr	Gly	Ala	Met	Asp	Ser	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Ser	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 819
 <211> 114
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 820
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 821
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 821
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Ser Asn Val Asn Tyr Met
 20 25 30
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45
 Phe Thr Ser Asn Leu Pro Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
 65 70 75 80
 Asp Phe Ala Val Tyr Tyr Cys Ser Gly Glu Val Thr Gln Phe Thr Phe
 85 90 95
 Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 822
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1, 2, 3, 4, 5
 <223> Xaa = Any Amino Acid

<400> 822
 Xaa Xaa Xaa Xaa Xaa Gln Ser Gly Thr Glu Leu Ala Arg Pro Gly Ala
 1 5 10 15
 Ser Val Lys Met Pro Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ala
 20 25 30
 Thr Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Asn Pro Asn Ser Gly Tyr Ser Lys Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Glu Ser Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Trp Gly Ile Asp Gly Asn Tyr Gly Gly Gly Phe Phe Asp Val
 100 105 110
 Trp Gly Thr Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 823
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 823
 Gln Val Gln Leu Gln Gln Ser Gly Arg Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

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

<210> 824
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 825
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 826
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 2, 6, 9
<223> Xaa = Any Amino Acid

<400> 826
Arg Xaa Ser Glu Asn Xaa Tyr Ser Xaa Leu Ala
1 5 10

<210> 827
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 5, 6, 7, 12, 16
<223> Xaa = Any Amino Acid

<400> 827
Arg Ser Ser Gln Xaa Xaa Xaa His Ser Asn Gly Xaa Thr Tyr Leu Xaa
1 5 10 15

<210> 828
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 6, 7, 8, 10, 11, 14, 15, 17
<223> Xaa = Any Amino Acid

<400> 828
Lys Ser Ser Gln Ser Xaa Xaa Xaa Ser Xaa Xaa Gln Lys Xaa Xaa Leu
1 5 10 15
Xaa

<210> 829
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT

<222> 2
<223> Xaa = T or S

<220>
<221> VARIANT
<222> 3
<223> Xaa = F or V

<220>
<221> VARIANT
<222> 4
<223> Xaa = T or S

<220>
<221> VARIANT
<222> 7, 8
<223> Xaa = Any Amino Acid

<400> 829
Tyr Xaa Xaa Xaa Tyr Xaa Xaa His
1 5

<210> 830
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 5, 7, 8
<223> Xaa = Any Amino Acid

<400> 830
Tyr Thr Phe Thr Xaa Tyr Xaa Xaa His
1 5

<210> 831
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 9
<223> Xaa = D or G

<400> 831
Phe Thr Phe Ser Asp Ala Trp Met Xaa
1 5

<210> 832
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>

<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 3
<223> Xaa = F or L

<220>
<221> VARIANT
<222> 4
<223> Xaa = N or S

<220>
<221> VARIANT
<222> 5
<223> Xaa = T or N

<220>
<221> VARIANT
<222> 7
<223> Xaa = A, S, or W

<220>
<221> VARIANT
<222> 9
<223> Xaa = N, K, or T

<400> 832
Phe Xaa Xaa Xaa Xaa Tyr Xaa Met Xaa
1 5

<210> 833
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<400> 833
Phe Xaa Phe Asn Thr Tyr Ala Met Asn
1 5

<210> 834
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 4

<223> Xaa = S or T

<220>

<221> VARIANT

<222> 5

<223> Xaa = N, S, or T

<220>

<221> VARIANT

<222> 6

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 8

<223> Xaa = I or M

<220>

<221> VARIANT

<222> 9

<223> Xaa = Any Amino Acid

<400> 834

Tyr Xaa Phe Xaa Xaa Xaa Trp Xaa Xaa
1 5

<210> 835

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 2, 6, 9

<223> Xaa = Any Amino Acid

<400> 835

Tyr Xaa Phe Ser Asn Xaa Trp Ile Xaa
1 5

<210> 836

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3, 4, 5

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 7

<223> Xaa = N or E

<220>

<221> VARIANT

<222> 8

<223> Xaa = N, S, or T

<220>
 <221> VARIANT
 <222> 9
 <223> Xaa = G or D

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa = G, D, or N

<220>
 <221> VARIANT
 <222> 11
 <223> Xaa = T, S, or N

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 14
 <223> Xaa = N, S, K, or I

<400> 836
 Ile Gly Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Tyr Xaa
 1 5 10

<210> 837
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3, 4, 5, 12
 <223> Xaa = Any Amino Acid

<400> 837
 Ile Gly Xaa Xaa Xaa Pro Asn Asn Gly Gly Thr Xaa Tyr Asn
 1 5 10

<210> 838
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 6
 <223> Xaa = N or D

<220>
 <221> VARIANT
 <222> 8
 <223> Xaa = V or I

<220>
 <221> VARIANT

<222> 9
 <223> Xaa = N or K

 <400> 838
 Val Ala Glu Ile Arg Xaa Lys Xaa Xaa Asn His Ala Thr Tyr Tyr Ala
 1 5 10 15

<210> 839
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1
 <223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 2
 <223> Xaa = A or G

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = R or K

<220>
 <221> VARIANT
 <222> 6
 <223> Xaa = S, T, R, or L

<220>
 <221> VARIANT
 <222> 7
 <223> Xaa = K or N

<220>
 <221> VARIANT
 <222> 8
 <223> Xaa = S, E, or Q

<220>
 <221> VARIANT
 <222> 9
 <223> Xaa = N, S, or D

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa = N or D

<220>
 <221> VARIANT
 <222> 11
 <223> Xaa = Y or F

<220>
 <221> VARIANT

<222> 14
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 16
<223> Xaa = A or S

<400> 839
Xaa Xaa Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Thr Xaa Tyr Xaa
1 5 10 15

<210> 840
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1, 3, 14
<223> Xaa = Any Amino Acid

<400> 840
Xaa Ala Xaa Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Xaa Tyr Ala
1 5 10 15

<210> 841
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 5
<223> Xaa = Y or D

<220>
<221> VARIANT
<222> 7
<223> Xaa = G or N

<220>
<221> VARIANT
<222> 8
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 9
<223> Xaa = G or D

<220>
<221> VARIANT
<222> 10
<223> Xaa = N or D

<220>
 <221> VARIANT
 <222> 11
 <223> Xaa = T, R, or S

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa = N or K

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa = Y or F

<400> 841
 Ile Gly Xaa Ile Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Asn
 1 5 10

<210> 842
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3, 8
 <223> Xaa = Any Amino Acid

<400> 842
 Ile Gly Xaa Ile Tyr Pro Gly Xaa Gly Asp Thr Asn Tyr Asn
 1 5 10

<210> 843
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 843
 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 844
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 844

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

<210> 845

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 845

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Ser	Ser
			20					25					30		
Trp	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Arg	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Asn	Tyr	Ala	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr	Val	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Leu	Leu	Arg	Asn	Gln	Pro	Gly	Glu	Ser	Tyr	Ala	Met	Asp	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 846

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 846

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

Ala	Arg	Leu	Leu	85	Arg	Asn	Gln	Pro	Gly	90	Glu	Ser	Tyr	Ala	Met	95	Asp	Tyr
			100						105						110			
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120											

<210> 847
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1			5						10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Ser	Ser
			20					25					30		
Trp	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Arg	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Asn	Tyr	Ala	Gln	Lys	Phe
	50				55					60					
Gln	Gly	Arg	Ala	Thr	Leu	Thr	Ala	Asp	Thr	Ser	Thr	Ser	Thr	Ala	Tyr
65				70					75					80	
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Arg	Leu	Leu	Arg	Asn	Gln	Pro	Gly	Glu	Ser	Tyr	Ala	Met	Asp	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Ala	Leu	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 848
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 849
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Ser	Arg	Leu	Glu	Ala	Asp	Asp	Leu	Gly	Ile	Tyr	Tyr	Cys	Met	Gln	Gly
				85					90					95	
Thr	His	Phe	Pro	Leu	Thr	Phe	Gly	Ala	Gly	Thr	Lys	Leu	Glu	Leu	Lys
			100					105					110		

<210> 850
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 851
 <211> 126
 <212> PRT
 <213> Homo sapiens

Leu	His	Pro	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Phe	Pro	Gly	Ser	Gln	Ala
1				5					10					15	
Gln	Ser	Lys	Ala	Gln	Val	Leu	Gln	Ser	Val	Ala	Gly	Gln	Thr	Leu	Thr
			20					25					30		
Val	Arg	Cys	Gln	Tyr	Pro	Pro	Thr	Gly	Ser	Leu	Tyr	Glu	Lys	Lys	Gly
		35					40					45			
Trp	Cys	Lys	Glu	Ala	Ser	Ala	Leu	Val	Cys	Ile	Arg	Leu	Val	Thr	Ser
	50					55					60				
Ser	Lys	Pro	Arg	Thr	Met	Ala	Trp	Thr	Ser	Arg	Phe	Thr	Ile	Trp	Asp
65				70					75					80	
Asp	Pro	Asp	Ala	Gly	Phe	Phe	Thr	Val	Thr	Met	Thr	Asp	Leu	Arg	Glu
				85					90					95	
Glu	Asp	Ser	Gly	His	Tyr	Trp	Cys	Arg	Ile	Tyr	Arg	Pro	Ser	Asp	Asn
			100					105					110		
Ser	Val	Ser	Lys	Ser	Val	Arg	Phe	Tyr	Leu	Val	Val	Ser	Pro		
		115					120					125			

<210> 852
 <211> 132
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consensus Sequence

<220>
 <221> VARIANT
 <222> 1, 2, 5, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24,
 26, 31, 33, 35, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47,
 49, 52, 53, 54, 55, 56, 57, 58, 59, 61, 63, 65, 66, 67,

68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 82,
83

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 85, 88, 89, 90, 92, 93, 95, 97, 98, 99, 101, 102, 103, 105,
107, 109, 111, 112, 113, 114, 115, 117, 118, 119, 120, 121,
122, 123, 125, 126, 127, 128, 129, 130, 131

<223> Xaa = Any Amino Acid

<400> 852

Xaa	Xaa	Pro	Leu	Xaa	Leu	Leu	Xaa	Leu	Leu	Phe	Xaa	Xaa	Xaa	Xaa	Xaa
1				5					10					15	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Val	Xaa	Gln	Xaa	Val	Ala	Gly	Gln	Xaa	Leu
			20					25					30		
Xaa	Val	Xaa	Cys	Xaa	Tyr	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Lys
		35					40					45			
Xaa	Trp	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Arg	Xaa	Val
	50					55					60				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Trp	Xaa	Xaa
65					70				75						80
Xaa	Xaa	Xaa	Ile	Xaa	Asp	Asp	Xaa	Xaa	Xaa	Gly	Xaa	Xaa	Thr	Xaa	Thr
			85					90					95		
Xaa	Xaa	Xaa	Leu	Xaa	Xaa	Xaa	Asp	Xaa	Gly	Xaa	Tyr	Xaa	Cys	Xaa	Xaa
			100					105					110		
Xaa	Xaa	Xaa	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Val	Xaa	Xaa	Xaa	Xaa
		115					120					125			
Xaa	Xaa	Xaa	Pro												
			130												

<210> 853

<211> 118

<212> PRT

<213> Homo sapiens

<400> 853

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

<210> 854

<211> 121

<212> PRT

<213> Homo sapiens

<400> 854

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

Cys	Gln	Arg	Val	Val	Ser	Thr	His	Asn	Leu	Trp	Leu	Leu	Ser	Phe	Leu
	50					55					60				
Arg	Arg	Trp	Asn	Gly	Ser	Thr	Ala	Ile	Thr	Asp	Asp	Thr	Leu	Gly	Gly
65					70					75					80
Thr	Leu	Thr	Ile	Thr	Leu	Arg	Asn	Leu	Gln	Pro	His	Asp	Ala	Gly	Leu
			85						90					95	
Tyr	Gln	Cys	Gln	Ser	Leu	His	Gly	Ser	Glu	Ala	Asp	Thr	Leu	Arg	Lys
			100					105					110		
Val	Leu	Val	Glu	Val	Leu	Ala	Asp	Pro							
		115					120								

<210> 855
 <211> 120
 <212> PRT
 <213> Mus musculus

<400> 855															
Glu	Val	Lys	Ala	Ala	Ile	Val	Leu	Glu	Glu	Glu	Arg	Tyr	Asp	Leu	Val
1				5					10					15	
Glu	Gly	Gln	Thr	Leu	Thr	Val	Lys	Cys	Pro	Phe	Asn	Ile	Met	Lys	Tyr
			20					25					30		
Ala	Asn	Ser	Gln	Lys	Ala	Trp	Gln	Arg	Leu	Pro	Asp	Gly	Lys	Glu	Pro
		35					40					45			
Leu	Thr	Leu	Val	Val	Thr	Gln	Arg	Pro	Phe	Thr	Arg	Pro	Ser	Glu	Val
		50				55					60				
His	Met	Gly	Lys	Phe	Thr	Leu	Lys	His	Asp	Pro	Ser	Glu	Ala	Met	Leu
65					70				75						80
Gln	Val	Gln	Met	Thr	Asp	Leu	Gln	Val	Thr	Asp	Ser	Gly	Leu	Tyr	Arg
				85					90					95	
Cys	Val	Ile	Tyr	His	Pro	Pro	Asn	Asp	Pro	Val	Val	Leu	Phe	His	Pro
			100					105					110		
Val	Arg	Leu	Val	Val	Thr	Lys	Gly								
		115					120								

<210> 856
 <211> 121
 <212> PRT
 <213> Mus musculus

<400> 856															
Ile	Thr	Ala	Leu	Ser	Gln	Ala	Leu	Asn	Thr	Thr	Val	Leu	Gln	Gly	Met
1				5					10					15	
Ala	Gly	Gln	Ser	Leu	Arg	Val	Ser	Cys	Thr	Tyr	Asp	Ala	Leu	Lys	His
			20					25					30		
Trp	Gly	Arg	Arg	Lys	Ala	Trp	Cys	Arg	Gln	Leu	Gly	Glu	Glu	Gly	Pro
		35					40					45			
Cys	Gln	Arg	Val	Val	Ser	Thr	His	Gly	Val	Trp	Ala	Ala	Gly	Leu	Pro
		50				55					60				
Glu	Glu	Ala	Asp	Gly	Ser	Thr	Val	Ile	Ala	Asp	Asp	Thr	Leu	Ala	Gly
65					70				75						80
Thr	Val	Thr	Ile	Thr	Leu	Lys	Asn	Leu	Gln	Ala	Gly	Asp	Ala	Gly	Leu
			85						90					95	
Tyr	Gln	Cys	Gln	Ser	Leu	Arg	Gly	Arg	Glu	Arg	Glu	Val	Leu	Gln	Lys
			100					105					110		
Val	Leu	Val	Glu	Val	Leu	Glu	Asp	Pro							
		115					120								

<210> 857
 <211> 121
 <212> PRT
 <213> Mus musculus

<400> 857															
Leu	Cys	Val	Ser	Gly	Leu	Gln	Ala	Gly	Asp	Glu	Glu	Glu	His	Lys	Cys
1				5					10					15	

Phe	Leu	Glu	Gly	Glu	Asn	Leu	Thr	Leu	Thr	Cys	Pro	Tyr	Asn	Ile	Met
			20					25					30		
Leu	Tyr	Ser	Leu	Ser	Leu	Lys	Ala	Trp	Gln	Arg	Val	Arg	Ser	His	Gly
		35					40					45			
Ser	Pro	Glu	Thr	Leu	Val	Leu	Thr	Asn	Thr	Arg	Lys	Ala	Asp	Phe	Asn
	50					55					60				
Val	Ala	Arg	Ala	Gly	Lys	Tyr	Leu	Leu	Glu	Asp	Tyr	Pro	Thr	Glu	Ser
65					70					75					80
Val	Val	Lys	Val	Thr	Val	Thr	Gly	Leu	Gln	Arg	Gln	Asp	Val	Gly	Leu
				85					90					95	
Tyr	Gln	Cys	Val	Val	Tyr	Leu	Ser	Pro	Asp	Asn	Val	Ile	Ile	Leu	Arg
			100					105					110		
Gln	Arg	Ile	Arg	Leu	Ala	Trp	Cys	Gln							
		115					120								

<210> 858
 <211> 112
 <212> PRT
 <213> Homo sapiens

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

<210> 859
 <211> 109
 <212> PRT
 <213> Homo sapiens

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

<210> 860
 <211> 114
 <212> PRT
 <213> Homo sapiens

Gly	Val	Thr	Gln	Thr	Pro	Lys	Phe	Gln	Val	Leu	Lys	Thr	Gly	Gln	Ser
1				5					10					15	

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

<210> 861
 <211> 120
 <212> PRT
 <213> Homo sapiens

His	Leu	Glu	Gln	Pro	Gln	Ile	Ser	Ser	Thr	Lys	Thr	Leu	Ser	Lys	Thr
1				5					10					15	
Ala	Arg	Leu	Glu	Cys	Val	Val	Ser	Gly	Ile	Thr	Ile	Ser	Ala	Thr	Ser
			20					25					30		
Val	Tyr	Trp	Tyr	Arg	Glu	Arg	Pro	Gly	Glu	Val	Ile	Gln	Phe	Leu	Val
		35					40					45			
Ser	Ile	Ser	Tyr	Asp	Gly	Thr	Val	Arg	Lys	Glu	Ser	Gly	Ile	Pro	Ser
		50				55					60				
Gly	Lys	Phe	Glu	Val	Asp	Arg	Ile	Pro	Glu	Thr	Ser	Thr	Ser	Thr	Leu
65					70					75					80
Thr	Ile	His	Asn	Val	Glu	Lys	Gln	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	Ala
			85						90					95	
Leu	Trp	Glu	Ala	Gln	Gln	Glu	Leu	Gly	Lys	Lys	Ile	Lys	Val	Phe	Gly
			100					105					110		
Pro	Gly	Thr	Lys	Leu	Ile	Ile	Thr								
		115					120								

<210> 862
 <211> 119
 <212> PRT
 <213> Homo sapiens

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

<210> 863
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 863

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

<210> 864

<211> 115

<212> PRT

<213> Mus musculus

<400> 864

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

<210> 865

<211> 103

<212> PRT

<213> Mus musculus

<400> 865

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

<210> 866

<211> 113

<212> PRT
 <213> Homo sapiens

<400> 866
 Gln Phe Arg Val Ser Pro Leu Asp Arg Thr Trp Asn Leu Gly Glu Thr
 1 5 10 15
 Val Glu Leu Lys Cys Gln Val Leu Leu Ser Asn Pro Thr Ser Gly Cys
 20 25 30
 Ser Trp Leu Phe Gln Pro Arg Gly Ala Ala Ala Ser Pro Thr Phe Leu
 35 40 45
 Leu Tyr Leu Ser Gln Asn Lys Pro Lys Ala Ala Glu Gly Leu Asp Thr
 50 55 60
 Gln Arg Phe Ser Gly Lys Arg Leu Gly Asp Thr Phe Val Leu Thr Leu
 65 70 75 80
 Ser Asp Phe Arg Arg Glu Asn Glu Gly Tyr Tyr Phe Cys Ser Ala Leu
 85 90 95
 Ser Asn Ser Ile Met Tyr Phe Ser His Phe Val Pro Val Phe Leu Pro
 100 105 110
 Ala

<210> 867
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 867
 His Val Ala Gln Pro Ala Val Val Leu Ala Ser Ser Arg Gly Ile Ala
 1 5 10 15
 Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr Glu Val Arg
 20 25 30
 Val Thr Val Leu Arg Gln Ala Asp Ser Gln Val Thr Glu Val Cys Ala
 35 40 45
 Ala Thr Tyr Met Met Gly Asn Glu Leu Thr Phe Leu Asp Asp Ser Ile
 50 55 60
 Cys Thr Gly Thr Ser Ser Gly Asn Gln Val Asn Leu Thr Ile Gln Gly
 65 70 75 80
 Leu Arg Ala Met Asp Thr Gly Leu Tyr Ile Cys Lys Val Glu Leu Met
 85 90 95
 Tyr Pro Pro Pro Tyr Tyr Leu Gly Ile Gly Asn Gly Thr Gln Ile Tyr
 100 105 110
 Val Ile Asp
 115

<210> 868
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 868
 Leu Leu Trp Met Leu Phe Val Ser Glu Leu Arg Ala Ala Thr Lys Leu
 1 5 10 15
 Thr Glu Glu Lys Tyr Glu Leu Lys Glu Gly Gln Thr Leu Asp Val Lys
 20 25 30
 Cys Asp Tyr Thr Leu Glu Lys Phe Ala Ser Ser Gln Lys Ala Trp Gln
 35 40 45
 Ile Ile Arg Asp Gly Glu Met Pro Lys Thr Leu Ala Cys Thr Glu Arg
 50 55 60
 Pro Ser Lys Asn Ser His Pro Val Gln Val Gly Arg Ile Ile Leu Glu
 65 70 75 80
 Asp Tyr His Asp His Gly Leu Leu Arg Val Arg Met Val Asn Leu Gln
 85 90 95
 Val Glu Asp Ser Gly Leu Tyr Gln Cys
 100 105

<210> 869
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consensus Sequence

<220>
 <221> VARIANT
 <222> 3, 4, 8, 11, 12, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24,
 25, 28, 30, 32, 34, 36, 37, 38, 40, 41, 42, 43, 44, 48,
 49, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64,
 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 78, 79,
 80, 81
 <223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 82, 84, 85, 86, 87, 89, 91, 92, 93, 94, 95, 99, 100, 102
 <223> Xaa = Any Amino Acid

<400> 869
 Leu Leu Xaa Xaa Leu Phe Val Xaa Glu Leu Xaa Xaa Ala Xaa Xaa Xaa
 1 5 10 15
 Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gln Xaa Leu Xaa Val Xaa
 20 25 30
 Cys Xaa Tyr Xaa Xaa Xaa Lys Xaa Xaa Xaa Xaa Xaa Lys Ala Trp Xaa
 35 40 45
 Xaa Gln Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa
 65 70 75 80
 Xaa Xaa Asp Xaa Xaa Xaa Xaa Gly Xaa Leu Xaa Xaa Xaa Xaa Xaa Asn
 85 90 95
 Leu Gln Xaa Xaa Asp Xaa Gly Leu Tyr Gln Cys
 100 105

<210> 870
 <211> 101
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 870
 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His Ser
 20 25 30
 Asp Gly Lys Thr Tyr Leu Tyr Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Glu Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ser
 85 90 95
 Ile Gln Leu Pro Pro
 100

<210> 871
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 871

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 872

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 872

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

<210> 873

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 873

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

<210> 874

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 874

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

<210> 875
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 876
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 877
 <211> 15

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 877
Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10 15

<210> 878
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 878
Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
20 25 30
Trp Met Asn Trp Val Lys Gln Arg Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Glu Phe
50 55 60
Arg Val Arg Ala Thr Leu Thr Ala Asp Thr Ser Ser Thr Thr Ala Tyr
65 70 75 80
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
85 90 95
Ala Arg Leu Leu Arg Asn Gln Pro Gly Glu Ser Tyr Ala Met Asp Tyr
100 105 110
Trp Gly Gln Gly Ala Ser Val Thr Val Ser Ser
115 120

<210> 879
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 879
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105

<210> 880
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 880
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser
20 25 30
Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Leu Leu Arg Asn Gln Pro Gly Glu Ser Tyr Ala Met Asp Tyr
100 105 110
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 881
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 881
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
20 25 30
Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Leu Leu Arg Asn Gln Pro Gly Glu Ser Tyr Ala Met Asp Tyr
100 105 110
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 882
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 882
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
20 25 30
Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Leu	Leu	Arg	Asn	Gln	Pro	Gly	Glu	Ser	Tyr	Ala	Met	Asp	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Ala	Leu	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 883
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1
 <223> Xaa = D or E

<220>
 <221> VARIANT
 <222> 2, 3
 <223> Xaa = Any Amino Acid and up to 2 of them can be present or absent

<220>
 <221> VARIANT
 <222> 5, 6
 <223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 7
 <223> Xaa = L or I

<220>
 <221> VARIANT
 <222> 8, 9, 10, 11, 12, 13, 14, 15
 <223> Xaa = Any Amino Acid and up to 2 of them can be present or absent

<220>
 <221> VARIANT
 <222> 17, 18
 <223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 19
 <223> Xaa = L or I

<400> 883
 Xaa Xaa Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
 1 5 10 15
 Xaa Xaa Xaa

<210> 884
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = F or V

<220>
 <221> VARIANT
 <222> 7
 <223> Xaa = G or E

<400> 884
 Gly Asp Leu Trp Xaa Pro Xaa Glu Ser
 1 5

<210> 885
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 885
 Met Glu Val Gly Trp Tyr Arg Ser Pro Phe Ser Arg Val Val His Leu
 1 5 10 15
 Tyr Arg Asn Gly Lys
 20

<210> 886
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 886
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
 1 5 10 15
 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
 20 25 30
 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45
 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 50 55 60
 Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr
 65 70 75 80
 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95
 Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
 100 105 110

<210> 887
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 887
 Met Gly Gly Leu Glu Pro Cys Ser Arg Leu Leu Leu Leu Pro Leu Leu
 1 5 10 15
 Leu Ala Val Ser Gly Leu Arg Pro Val Gln Ala Gln Ala Gln Ser Asp
 20 25 30

Cys	Ser	Cys	Ser	Thr	Val	Ser	Pro	Gly	Val	Leu	Ala	Gly	Ile	Val	Met
		35					40					45			
Gly	Asp	Leu	Val	Leu	Thr	Val	Leu	Ile	Ala	Leu	Ala	Val	Tyr	Phe	Leu
	50					55					60				
Gly	Arg	Leu	Val	Pro	Arg	Gly	Arg	Gly	Ala	Ala	Glu	Ala	Ala	Thr	Arg
65					70					75					80
Lys	Gln	Arg	Ile	Thr	Glu	Thr	Glu	Ser	Pro	Tyr	Gln	Glu	Leu	Gln	Gly
				85					90					95	
Gln	Arg	Ser	Asp	Val	Tyr	Ser	Asp	Leu	Asn	Thr	Gln	Arg	Pro	Tyr	Tyr
			100					105					110		
Lys															

<210> 888
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Arg	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Asn	Tyr	Asn	Gly	Glu	Phe	Arg
1				5					10					15	
Val															