

SEQUENCE LISTING

<110> ALEXO THERAPEUTICS INC.
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SIM, Bang Janet
Wan, Hong
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KAUDER, Steven Elliot
HARRIMAN, William Don
IZQUIERDO, Shelley

<120> ANTIBODIES AGAINST SIGNAL-REGULATORY
PROTEIN ALPHA AND METHODS OF USE

<130> 757972000140

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> US 62/515,480

<151> 2017-06-05

<150> US 62/397,752

<151> 2016-09-21

<160> 426

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 348

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 1

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

Glu	Glu	Met	Thr	245	Lys	Asn	Gln	Val	Ser	250	Leu	Thr	Cys	Leu	Val	255	Lys	Gly
Phe	Tyr	Pro	260	Asp	Ile	Ala	Val	265	Glu	Trp	Glu	Ser	Asn	270	Gly	Gln	Pro	
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	300	Gly	Ser		
Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	320		
305	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His		
Tyr	Thr	Gln	Lys	325	Ser	Leu	Ser	Leu	Ser	330	Leu	Gly	Lys		335			
			340						345									

<210> 2
 <211> 347
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Glu	Glu	Glu	Leu	Gln	Val	Ile	Gln	Pro	Asp	Lys	Ser	Val	Ser	Val	Ala			
1	Ala	Gly	Glu	Ser	5	Ile	Leu	His	Cys	10	Thr	Val	Thr	Ser	Leu	Ile	Pro	
	Val	Gly	Pro	Ile	Gln	Trp	Phe	Arg	Gly	Ala	Gly	Pro	Ala	Arg	Glu	Leu		
	Ile	Tyr	Asn	Gln	Lys	Glu	Gly	His	Phe	Pro	Arg	Val	Thr	Thr	Val	Ser		
	65	Glu	Ser	Thr	Lys	Arg	Glu	Asn	Met	Asp	Phe	Ser	Ile	Ser	Ile	Ser	Asn	
	Ile	Thr	Pro	Ala	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Val	Lys	Phe	Arg	Lys		
	Gly	Ser	Pro	Asp	Thr	Glu	Phe	Lys	Ser	Gly	Ala	Gly	Thr	Glu	Leu	Ser		
	Val	Arg	Ala	Lys	Pro	Ser	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro		
	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro		
	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr		
	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn		
	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg		
	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val		
	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser		
	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys		
	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu		
	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe		
	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu		
	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Val	Leu	Asp	Ser	Arg	Trp	Gln	Glu	Gly		
	305	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	
	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr		
	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys							
			340						345									

<210> 3
 <211> 346
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 3
 Lys Glu Leu Lys Val Thr Gln Pro Glu Lys Ser Val Ser Val Ala Ala
 1 5 10 15
 Gly Asp Ser Thr Val Leu Asn Cys Thr Leu Thr Ser Leu Leu Pro Val
 20 25 30
 Gly Pro Ile Lys Trp Tyr Arg Gly Val Gly Gln Ser Arg Leu Leu Ile
 35 40 45
 Tyr Ser Phe Thr Gly Glu His Phe Pro Arg Val Thr Asn Val Ser Asp
 50 55 60
 Ala Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Ser Asn Val
 65 70 75 80
 Thr Pro Glu Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Gln Lys Gly
 85 90 95
 Pro Ser Glu Pro Asp Thr Glu Ile Gln Ser Gly Gly Gly Thr Glu Val
 100 105 110
 Tyr Val Leu Ala Lys Pro Ser Asp Lys Thr His Thr Cys Pro Pro Cys
 115 120 125
 Pro Ala Pro Glu Ala Ala Gly Ala Pro Ser Val Phe Leu Phe Pro Pro
 130 135 140
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 145 150 155 160
 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 165 170 175
 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 180 185 190
 Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 195 200 205
 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 210 215 220
 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 225 230 235 240
 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
 245 250 255
 Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 260 265 270
 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
 275 280 285
 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 290 295 300
 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 305 310 315 320
 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 325 330 335
 Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 340 345

<210> 4
 <211> 342
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 4
 Thr Glu Val Lys Val Ile Gln Pro Glu Lys Ser Val Ser Val Ala Ala
 1 5 10 15
 Gly Asp Ser Thr Val Leu Asn Cys Thr Leu Thr Ser Leu Leu Pro Val
 20 25 30
 Gly Pro Ile Arg Trp Tyr Arg Gly Val Gly Gln Ser Arg Gln Leu Ile
 35 40 45

Tyr	Ser	Phe	Thr	Thr	Glu	His	Phe	Pro	Arg	Val	Thr	Asn	Val	Ser	Asp
Ala	Thr	Lys	Arg	Ser	Asn	Leu	Asp	Phe	Ser	Ile	Arg	Ile	Ser	Asn	Val
65					70					75					80
Thr	Pro	Glu	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Val	Lys	Phe	Gln	Arg	Gly
				85					90					95	
Ser	Pro	Asp	Thr	Glu	Ile	Gln	Ser	Gly	Gly	Gly	Thr	Glu	Val	Tyr	Val
			100					105					110		
Leu	Ala	Lys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu
		115					120					125			
Ala	Ala	Gly	Ala	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
	130					135					140				
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp
145					150					155					160
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly
				165					170					175	
Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Ala
			180					185					190		
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp
		195					200					205			
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro
	210					215					220				
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu
225					230					235					240
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn
				245					250					255	
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
			260					265					270		
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
		275					280				285				
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
	290					295					300				
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
305					310					315					320
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
				325					330					335	
Ser	Leu	Ser	Pro	Gly	Lys										
			340												

<210> 5
 <211> 119
 <212> PRT
 <213> Homo sapiens

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

<210> 6
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 6

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

<210> 7
 <211> 119
 <212> PRT
 <213> Mus musculus

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

<210> 8
 <211> 115
 <212> PRT
 <213> Mus musculus

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

<210> 9
 <211> 117
 <212> PRT
 <213> Mus musculus

<400> 9
 Lys Glu Leu Lys Val Thr Gln Pro Glu Lys Ser Val Ser Val Ala Ala
 1 5 10 15
 Gly Asp Ser Thr Val Leu Asn Cys Thr Leu Thr Ser Leu Leu Pro Val
 20 25 30
 Gly Pro Ile Arg Trp Tyr Arg Gly Val Gly Pro Ser Arg Leu Leu Ile
 35 40 45
 Tyr Ser Phe Ala Gly Glu Tyr Val Pro Arg Ile Arg Asn Val Ser Asp
 50 55 60
 Thr Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Ser Asn Val
 65 70 75 80
 Thr Pro Ala Asp Ala Gly Ile Tyr Tyr Cys Val Lys Phe Gln Lys Gly
 85 90 95
 Ser Ser Glu Pro Asp Thr Glu Ile Gln Ser Gly Gly Gly Thr Glu Val
 100 105 110
 Tyr Val Leu Ala Lys
 115

<210> 10
 <211> 117
 <212> PRT
 <213> Mus musculus

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

<210> 11
 <211> 118
 <212> PRT
 <213> Macaca fascicularis

<400> 11
 Glu Glu Glu Leu Gln Val Ile Gln Pro Glu Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Thr Leu Asn Cys Thr Ala Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Val Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr His Gln Lys Glu Gly His Phe Pro Arg Val Thr Pro Val Ser
 50 55 60
 Asp Pro Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Val Glu Leu Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 12
 <211> 118

<212> PRT
 <213> Macaca fascicularis

<400> 12
 Glu Glu Glu Leu Gln Val Ile Gln Pro Glu Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Asp Ser Ala Thr Leu Asn Cys Thr Val Ser Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Leu Lys Glu Gly His Phe Pro Arg Val Thr Ala Val Ser
 50 55 60
 Asp Pro Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Val Glu Leu Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 13
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 13
 Glu Asp Glu Leu Gln Val Ile Gln Pro Glu Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Thr Leu Arg Cys Ala Met Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Met Trp Phe Arg Gly Ala Gly Ala Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Leu Thr Lys Arg Asn Asn Leu Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

<210> 14
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 14
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Ile Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Thr Leu His Cys Thr Val Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp His Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

<210> 15
 <211> 119
 <212> PRT
 <213> Homo sapiens

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

<210> 16
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 16
 Gln Leu Leu Phe Asn Lys Thr Lys Ser Val Glu Phe Thr Phe Ser Asn
 1 5 10 15
 Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala Gln Asn
 20 25 30
 Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp Ile Tyr
 35 40 45
 Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp Phe Ser
 50 55 60
 Ser Ala Lys Ile Glu Val Ser Gln Leu Leu Lys Gly Asp Ala Ser Leu
 65 70 75 80
 Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr Thr Cys
 85 90 95
 Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu Leu Lys
 100 105 110
 Tyr Arg Val Val Ser
 115

<210> 17
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 17
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Glu Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Thr Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Ala
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu

Ser Val Arg Ala Lys Pro Ser
 100 105 110
 115

<210> 18
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 18
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Val Leu
 35 40 45
 Ile Tyr Asn Gln Arg Gln Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Thr Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Ile Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 19
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 19
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Val Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Gln Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Ser Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 20
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 20
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15

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

<210> 21
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	21														
Glu	Glu	Glu	Leu	Gln	Ile	Ile	Gln	Pro	Asp	Lys	Ser	Val	Ser	Val	Ala
1				5					10					15	
Ala	Gly	Glu	Ser	Ala	Ile	Leu	His	Cys	Thr	Val	Thr	Ser	Leu	Phe	Pro
			20					25					30		
Val	Gly	Pro	Ile	Gln	Trp	Phe	Arg	Gly	Ala	Gly	Pro	Ala	Arg	Val	Leu
		35					40					45			
Ile	Tyr	Asn	Gln	Arg	Gln	Gly	Pro	Phe	Pro	Arg	Val	Thr	Thr	Val	Ser
	50					55					60				
Glu	Thr	Thr	Lys	Arg	Glu	Asn	Met	Asp	Phe	Ser	Ile	Ser	Ile	Ser	Asn
65					70					75					80
Ile	Thr	Pro	Ala	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Ile	Lys	Phe	Arg	Lys
				85					90					95	
Gly	Ser	Pro	Asp	Thr	Glu	Phe	Lys	Ser	Gly	Ala	Gly	Thr	Glu	Leu	Ser
			100					105					110		
Val	Arg	Ala	Lys	Pro	Ser										
		115													

<210> 22
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	22														
Glu	Glu	Glu	Leu	Gln	Ile	Ile	Gln	Pro	Asp	Lys	Ser	Val	Ser	Val	Ala
1				5					10					15	
Ala	Gly	Glu	Ser	Ala	Ile	Leu	His	Cys	Thr	Ile	Thr	Ser	Leu	Ile	Pro
			20					25					30		
Val	Gly	Pro	Ile	Gln	Trp	Phe	Arg	Gly	Ala	Gly	Pro	Ala	Arg	Val	Leu
		35					40					45			
Ile	Tyr	Asn	Gln	Arg	Gln	Gly	Pro	Phe	Pro	Arg	Val	Thr	Thr	Val	Ser
	50					55					60				
Glu	Thr	Thr	Lys	Arg	Glu	Asn	Met	Asp	Phe	Ser	Ile	Ser	Ile	Ser	Asn
65					70					75					80
Ile	Thr	Pro	Ala	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Ile	Lys	Phe	Arg	Lys
				85					90					95	
Gly	Ser	Pro	Asp	Thr	Glu	Phe	Lys	Ser	Gly	Ala	Gly	Thr	Glu	Leu	Ser
			100					105					110		
Val	Arg	Ala	Lys	Pro	Ser										
		115													

<210> 23
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 23
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Gln Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Thr Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Ile Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 24
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 24
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Val Leu
 35 40 45
 Ile Tyr Asn Gln Lys Gln Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Thr Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Ile Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 25
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

50					55					60					
Glu	Thr	Thr	Lys	Arg	Glu	Asn	Met	Asp	Phe	Ser	Ile	Ser	Ile	Ser	Asn
65					70					75					80
Ile	Thr	Pro	Ala	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Ile	Lys	Phe	Arg	Lys
				85					90					95	
Gly	Ser	Pro	Asp	Thr	Glu	Phe	Lys	Ser	Gly	Ala	Gly	Thr	Glu	Leu	Ser
			100					105					110		
Val	Arg	Ala	Lys	Pro	Ser										
		115													

<210> 26
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 26															
Glu	Glu	Glu	Leu	Gln	Ile	Ile	Gln	Pro	Asp	Lys	Ser	Val	Ser	Val	Ala
1				5					10					15	
Ala	Gly	Glu	Ser	Ala	Ile	Leu	His	Cys	Thr	Ile	Thr	Ser	Leu	Phe	Pro
			20					25					30		
Val	Gly	Pro	Ile	Gln	Trp	Phe	Arg	Gly	Ala	Gly	Pro	Ala	Arg	Val	Leu
		35					40					45			
Ile	Tyr	Asn	Gln	Arg	Gln	Gly	His	Phe	Pro	Arg	Val	Thr	Thr	Val	Ser
	50					55					60				
Glu	Thr	Thr	Lys	Arg	Glu	Asn	Met	Asp	Phe	Ser	Ile	Ser	Ile	Ser	Asn
65					70					75					80
Ile	Thr	Pro	Ala	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Ile	Lys	Phe	Arg	Lys
			85					90					95		
Gly	Ser	Pro	Asp	Thr	Glu	Phe	Lys	Ser	Gly	Ala	Gly	Thr	Glu	Leu	Ser
			100					105					110		
Val	Arg	Ala	Lys	Pro	Ser										
		115													

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

<220>
 <223> Synthetic Construct

<400> 27															
Glu	Glu	Glu	Leu	Gln	Ile	Ile	Gln	Pro	Asp	Lys	Ser	Val	Ser	Val	Ala
1				5					10					15	
Ala	Gly	Glu	Ser	Ala	Ile	Leu	His	Cys	Thr	Ile	Thr	Ser	Leu	Phe	Pro
			20					25					30		
Val	Gly	Pro	Ile	Gln	Trp	Phe	Arg	Gly	Ala	Gly	Pro	Ala	Arg	Val	Leu
		35					40					45			
Ile	Tyr	Asn	Gln	Arg	Gln	Gly	Pro	Phe	Pro	Arg	Val	Thr	Thr	Val	Ser
	50					55					60				
Glu	Ser	Thr	Lys	Arg	Glu	Asn	Met	Asp	Phe	Ser	Ile	Ser	Ile	Ser	Asn
65					70					75					80
Ile	Thr	Pro	Ala	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Ile	Lys	Phe	Arg	Lys
			85					90					95		
Gly	Ser	Pro	Asp	Thr	Glu	Phe	Lys	Ser	Gly	Ala	Gly	Thr	Glu	Leu	Ser
			100					105					110		
Val	Arg	Ala	Lys	Pro	Ser										
		115													

<210> 28
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 28
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Val Leu
 35 40 45
 Ile Tyr Asn Gln Arg Gln Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Thr Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 29
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 29
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Val Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Glu Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Ser Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 30
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 31
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 31
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Glu Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Ser Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 32
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 32
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Glu Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Thr Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 33
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 33
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Ser Val Ala

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

<210> 34
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	34																		
	Glu	Glu	Glu	Leu	Gln	Val	Ile	Gln	Pro	Asp	Lys	Ser	Val	Ser	Val	Ala			
	1				5					10					15				
	Ala	Gly	Glu	Ser	Ala	Ile	Leu	His	Cys	Thr	Ile	Thr	Ser	Leu	Ile	Pro			
				20					25					30					
	Val	Gly	Pro	Ile	Gln	Trp	Phe	Arg	Gly	Ala	Gly	Pro	Ala	Arg	Glu	Leu			
			35					40					45						
	Ile	Tyr	Asn	Gln	Arg	Glu	Gly	Pro	Phe	Pro	Arg	Val	Thr	Thr	Val	Ser			
		50					55					60							
	Glu	Ser	Thr	Lys	Arg	Glu	Asn	Met	Asp	Phe	Ser	Ile	Ser	Ile	Ser	Asn			
	65					70					75				80				
	Ile	Thr	Pro	Ala	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Val	Lys	Phe	Arg	Lys			
				85					90					95					
	Gly	Ser	Pro	Asp	Thr	Glu	Phe	Lys	Ser	Gly	Ala	Gly	Thr	Glu	Leu	Ser			
			100						105					110					
	Val	Arg	Ala	Lys	Pro	Ser													
			115																

<210> 35
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 36
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 36
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Gln Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

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

<220>
 <223> Synthetic Construct

<400> 37
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Glu Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

<210> 38
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 38
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45

Ile	Tyr	Asn	Gln	Arg	Glu	Gly	Pro	Phe	Pro	Arg	Val	Thr	Thr	Val	Ser
	50					55					60				
Asp	Thr	Thr	Lys	Arg	Asn	Asn	Met	Asp	Phe	Ser	Ile	Arg	Ile	Gly	Asn
65					70					75					80
Ile	Thr	Pro	Ala	Asp	Ala	Gly	Thr	Tyr	Tyr	Cys	Val	Lys	Phe	Arg	Lys
				85					90					95	
Gly	Ser	Pro	Asp	Asp	Val	Glu	Phe	Lys	Ser	Gly	Ala	Gly	Thr	Glu	Leu
			100					105					110		
Ser	Val	Arg	Ala	Lys	Pro	Ser									
		115													

<210> 39
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 40
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 41
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 41
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Glu Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

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

<220>
 <223> Synthetic Construct

<400> 42
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Val Leu
 35 40 45
 Ile Tyr Asn Gln Arg Gln Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Thr Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Ile Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

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

<220>
 <223> Synthetic Construct

<400> 43
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Val Leu
 35 40 45
 Ile Tyr Asn Gln Arg Gln Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Thr Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Ala
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Ile Lys Phe Arg Lys

Gly	Ser	Pro	Asp	85	Asp	Val	Glu	Phe	Lys	90	Ser	Gly	Ala	Gly	Thr	95	Glu	Leu
			100						105						110			
Ser	Val	Arg	Ala		Lys	Pro	Ser											
		115																

<210> 44
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 45
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 46
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 46

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

<210> 47
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 48
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 49
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 49
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Glu Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Thr Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Ala
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

<210> 50
 <211> 119
 <212> PRT
 <213> Homo sapiens

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

<210> 51
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 51
 Glu Glu Glu Leu Gln Ile Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ile Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Glu Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60

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

<210> 52
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 52
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Phe Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Arg Gln Gly Pro Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn
 65 70 75 80
 Ile Thr Val Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

<210> 53
 <211> 484
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 53
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Glu Ile Thr Cys Ser Gly Gly Gly Ser Asn Asn Ala Tyr Gly Trp Phe
 20 25 30
 Gln Gln Lys Ser Pro Gly Ser Ala Pro Leu Thr Val Ile Tyr Asp Asn
 35 40 45
 Gly Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser
 50 55 60
 Asp Ser Thr Gly Thr Leu Thr Ile Thr Arg Val Gln Ala Glu Asp Glu
 65 70 75 80
 Ala Val Tyr Tyr Cys Gly Ser Ala Asp Asn Ser Gly Ala Gly Val Phe
 85 90 95
 Gly Ala Gly Thr Thr Leu Thr Val Leu Gly Gln Ser Ser Arg Ser Ser
 100 105 110
 Gly Gly Gly Gly Ser Ser Gly Gly Gly Ser Met Ala Ala Val Thr
 115 120 125
 Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly Ala Leu Ser
 130 135 140
 Leu Val Cys Lys Gly Ser Gly Phe Thr Phe Ser Ser His Ala Met Asn
 145 150 155 160
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Gly Ile
 165 170 175
 Ser Ser Asp Gly Arg Phe Thr Tyr Tyr Gly Ala Ala Val Gln Gly Arg
 180 185 190

Ala	Thr	Ile	Ser	Arg	Asp	Asn	Gly	Gln	Ser	Thr	Val	Arg	Leu	Gln	Leu
Asn	Asn	195	Arg	Ala	Glu	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys	Thr	Lys	Asn
Gly	Gly	210	Cys	Gly	Ser	Gly	Gly	Asp	Leu	Asp	Cys	Ile	Asp	Ala	Trp
His	Gly	225	Thr	Glu	Val	Ile	Val	Ser	Ser	Ser	Leu	Asp	Pro	Lys	Ser
Asp	Lys	245	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Gly
Gly	Pro	260	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu
Ile	Ser	275	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser
Glu	Asp	290	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu
His	Asn	305	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr
Arg	Val	325	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn
Lys	Glu	340	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro
Glu	Lys	355	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln
Tyr	Thr	370	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val
Leu	Thr	385	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val
Trp	Glu	405	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro
Val	Leu	420	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr
Asp	Lys	435	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val
His	Glu	450	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu
Pro	Gly	465	Lys	Val		470				475					480

<210> 54
 <211> 480
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	54														
Ala	Val	Thr	Gln	Pro	Ala	Ser	Val	Ser	Ala	Asn	Pro	Gly	Glu	Thr	Val
1				5					10				15		
Arg	Ile	Thr	Cys	Ser	Gly	Asp	Ser	Ser	Ser	Tyr	Tyr	Ser	Trp	His	Gln
			20					25					30		
Gln	Lys	Ser	Pro	Gly	Ser	Ala	Pro	Val	Ser	Val	Ile	Tyr	Ser	Asn	Thr
		35					40					45			
Asp	Arg	Pro	Ser	Asp	Ile	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Ala	Ser	Gly
		50				55					60				
Ser	Thr	Ala	Thr	Leu	Thr	Ile	Thr	Gly	Val	Gln	Ala	Glu	Asp	Glu	Ala
65				70					75					80	
Val	Tyr	Phe	Cys	Gly	Ala	Tyr	Asp	Ser	Ser	Ser	Asp	Ser	Asp	Ile	Phe
			85					90						95	
Gly	Ala	Gly	Thr	Leu	Thr	Val	Leu	Gly	Gln	Ser	Ser	Arg	Ser	Ser	
			100				105					110			
Gly	Gly	Gly	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Met	Ala	Ala	Val	Thr
		115					120					125			
Leu	Asp	Glu	Ser	Gly	Gly	Gly	Leu	Gln	Thr	Pro	Gly	Gly	Gly	Leu	Ser
		130				135					140				
Leu	Val	Cys	Lys	Ala	Ser	Gly	Phe	Asp	Phe	Ser	Asn	Phe	Asn	Met	Ala
145				150					155						160
Trp	Val	Arg	Gln	Gly	Pro	Gly	Lys	Gly	Leu	Glu	Tyr	Val	Ala	Glu	Ile

Ser	Asp	Thr	Gly	165	Ser	Thr	Pro	Tyr	Tyr	170	Gly	Ser	Ala	Val	Gln	175	Gly	Arg
Ala	Thr	Ile	180	Ser	Arg	Asp	Asn	Gly	185	Gln	Ser	Thr	Val	Arg	190	Gln	Leu	
Asn	Asn	Leu	195	Arg	Ala	Glu	Asp	Thr	200	Gly	Thr	Tyr	Phe	Cys	Thr	Arg	Asn	
Phe	Gly	Ser	210	Ser	Val	Ser	215	Ser	Ile	Asp	Ala	Trp	Gly	His	Gly	Thr	Glu	
225	Ile	Val	Ser	230	Ser	Leu	Asp	Pro	Lys	235	Ser	Ser	Asp	Lys	Thr	His		
Val	Thr	Cys	Pro	245	Cys	Pro	Ala	Pro	Glu	250	Leu	Leu	Gly	Gly	Pro	Ser	Val	
Phe	Leu	Phe	260	Pro	Pro	Lys	Pro	Lys	265	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	
Pro	Glu	Val	275	Thr	Cys	Val	Val	Val	280	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	
Val	Lys	Phe	290	Asn	Trp	Tyr	Val	Val	295	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys
305	Thr	Lys	Pro	Arg	Glu	Gln	Tyr	Asn	310	Ser	Thr	Tyr	Arg	Val	Val	Ser		
Val	Leu	Thr	315	Val	Leu	His	Gln	Asp	320	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	
Cys	Lys	Val	325	Ser	Asn	Lys	Ala	Leu	330	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	
Ser	Lys	Ala	340	Lys	Gly	Gln	Pro	Arg	345	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	
Pro	Ser	Arg	355	Asp	Glu	Leu	Thr	Lys	360	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	
385	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	380	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	
Gly	Gln	Pro	405	Asn	Asn	Tyr	Lys	Thr	410	Thr	Pro	Pro	Val	Leu	Asp	Ser		
Asp	Gly	Ser	420	Phe	Phe	Leu	Tyr	Ser	425	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	
Trp	Gln	Gln	435	Gly	Asn	Val	Phe	Ser	440	Cys	Ser	Val	Met	His	Glu	Ala	Leu	
His	Asn	His	450	Tyr	Thr	Gln	Lys	Ser	455	Leu	Ser	Leu	Ser	Pro	Gly	Lys	Val	
465			470						475								480	

<210> 55
 <211> 491
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 56
 <211> 489
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 56	Ala	Leu	Thr	Gln	Pro	Ser	Ser	Val	Ser	Ala	Asn	Pro	Gly	Glu	Thr	Val
1	Lys	Ile	Thr	Cys	5	Ser	Gly	Asp	Asn	10	Ala	His	Tyr	Tyr	15	Gly
				20					25					30		Trp
Tyr	Gln	Gln	Lys	Ser	Pro	Gly	Ser	Ala	Pro	Val	Thr	Val	Ile	Tyr	Tyr	
		35					40					45				
Asn	Asp	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Ala	
	50					55					60					
Ser	Gly	Ser	Thr	Ala	Thr	Leu	Ile	Ile	Thr	Gly	Val	Gln	Val	Glu	Asp	
65				70						75				80		
Glu	Ala	Val	Tyr	Phe	Cys	Gly	Ser	Ala	Asp	Ser	Ser	Asn	Pro	Ala	Ile	
				85					90					95		
Phe	Gly	Ala	Gly	Thr	Thr	Leu	Thr	Val	Leu	Gly	Gln	Ser	Ser	Arg	Ser	
			100					105					110			
Ser	Gly	Gly	Gly	Gly	Ser	Ser	Gly	Gly	Gly	Ser	Met	Ala	Ala	Val		
		115					120				125					
Thr	Leu	Asp	Glu	Ser	Gly	Gly	Gly	Leu	Gln	Thr	Pro	Gly	Arg	Ala	Leu	

130	Ser 145	Leu	Val	Cys	Arg	Gly 150	135	Ser	Gly	Phe	Ser	Ile 155	140	Ser	Ser	Tyr	Asn	Met 160
	Gly	Trp	Val	Arg	Gln 165	Ala	Pro	Gly	Lys	Gly 170	Leu	Glu	Phe	Ile	Ala 175	Lys	Gly	
	Ile	Gly	Ser	Asp 180	Gly	Ser	Ser	Thr	His 185	Tyr	Ala	Pro	Ala	Val 190	Leu	Gln		
	Arg	Ala	Thr 195	Ile	Thr	Arg	Asp	Val 200	Gly	Gln	Ser	Thr	Val 205	Arg	Leu	Gln		
	Leu	Asn 210	Asn	Leu	Arg	Ala	Glu 215	Asp	Thr	Gly	Thr	Tyr 220	Phe	Cys	Ala	Lys		
	Asp 225	Ala	Tyr	Gln	Cys	Ser 230	Tyr	Ala	Thr	Cys	Asn 235	Asp	Tyr	Leu	Asp	Thr 240		
	Ile	Asp	Ala	Trp	Gly 245	His	Gly	Thr	Glu	Val 250	Ile	Val	Ser	Ser	Ser 255	Leu		
	Asp	Pro	Lys	Ser 260	Ser	Asp	Lys	Thr	His 265	Thr	Cys	Pro	Pro	Cys 270	Pro	Ala		
	Pro	Glu	Leu 275	Leu	Gly	Gly	Pro	Ser 280	Val	Phe	Leu	Phe	Pro 285	Pro	Lys	Pro		
	Lys	Asp 290	Thr	Leu	Met	Ile	Ser 295	Arg	Thr	Pro	Glu	Val 300	Thr	Cys	Val	Val		
	Val 305	Asp	Val	Ser	His	Glu 310	Asp	Pro	Glu	Val	Lys 315	Phe	Asn	Trp	Tyr	Val 320		
	Asp	Gly	Val	Glu	Val 325	His	Asn	Ala	Lys	Thr 330	Lys	Pro	Arg	Glu	Glu 335	Gln		
	Tyr	Asn	Ser 340	Thr	Tyr	Arg	Val 345	Val	Ser	Val 350	Leu	Thr	Val 355	Ser	Asn	Lys	Ala	
	Asp	Trp 355	Leu	Asn	Gly	Lys	Glu 360	Tyr	Lys	Cys	Lys	Val 365	Ser	Asn	Lys	Ala		
	Leu	Pro 370	Ala	Pro	Ile	Glu 375	Lys	Thr	Ile	Ser	Lys	Ala 380	Lys	Gly	Gln	Pro		
	Arg 385	Glu	Pro	Gln	Val 390	Tyr	Thr	Leu	Pro	Pro	Ser 395	Arg	Asp	Glu	Leu	Thr 400		
	Lys	Asn	Gln	Val 405	Ser	Leu	Thr	Cys	Leu	Val 410	Lys	Gly	Phe	Tyr	Pro 415	Ser		
	Asp	Ile	Ala	Val 420	Glu	Trp	Glu	Ser	Asn 425	Gly	Gln	Pro	Glu	Asn 430	Asn	Tyr		
	Lys	Thr 435	Thr	Pro	Pro	Val	Leu	Asp 440	Ser	Asp	Gly	Ser	Phe 445	Phe	Leu	Tyr		
	Ser	Lys 450	Leu	Thr	Val	Asp	Lys 455	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe		
	Ser 465	Cys	Ser	Val	Met	His 470	Glu	Ala	Leu	His	Asn 475	His	Tyr	Thr	Gln	Lys 480		
	Ser	Leu	Ser	Leu	Ser 485	Pro	Gly	Lys	Val									

<210> 57
 <211> 487
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 57
 Ala 1 Val Thr Gln Pro 5 Ala Ser Val Ser 10 Ala Asn Pro Gly Glu Thr 15 Val
 Lys Ile Thr Cys 20 Ser Gly Ser Ser 25 Ser Gly Ser Tyr Gly Trp 30 Tyr Gln
 Gln Lys 35 Ser Pro Gly Ser Ala 40 Pro Val Thr Leu Ile Tyr 45 Glu Thr Asn
 Lys 50 Arg Pro Ser Asn Ile 55 Pro Ser Arg Phe Ser 60 Gly Ser Lys Ser Gly
 Ser 65 Thr Ala Thr Leu Thr 70 Ile Thr Gly Val Gln 75 Ala Asp Asp Glu Ala 80
 Val Tyr Tyr Cys 85 Gly Ser Glu Asp Ser 90 Thr Tyr Leu Ser Ile 95 Phe
 Gly Ala Gly Thr 100 Thr Leu Thr Val Leu 105 Gly Gln Ser Ser Arg 110 Ser Ser

Gly	Gly	Gly	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Met	Ala	Ala	Val	Thr
Leu	Asp	115 Glu	Ser	Gly	Gly	Gly	120 Leu	Gln	Thr	Pro	Gly	125 Gly	Ala	Leu	Ser
Leu	Val	Cys	Lys	Ala	Ser	Gly	135 Phe	Thr	Phe	Ser	Ser	Phe	Asn	Met	Gly
145 Trp	Val	Arg	Gln	Ala	150 Pro	Gly	Lys	Gly	Leu	155 Glu	Phe	Val	Ala	Ala	160 Ile
Tyr	Ser	Gly	Asn	Ser	Ala	Glu	Tyr	Gly	Ala	Ala	Val	Gln	Gly	Arg	Ala
Thr	Ile	Ser	Arg	Asp	Asn	Gly	Gln	Ser	Thr	Val	Arg	Leu	Gln	Leu	Asn
Asn	Leu	Arg	Ala	Glu	Asp	Thr	Gly	Ile	Tyr	Phe	Cys	Ala	Lys	Asp	Ala
Gly	Ser	Gly	Cys	Tyr	Ser	Gly	Val	Cys	Ala	Gly	Thr	Ser	Ser	Ile	Asp
225 Ala	Trp	Gly	His	Gly	Thr	Glu	Val	Ile	Val	Ser	Ser	Ser	Leu	Asp	Pro
Lys	Ser	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu
Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly
305 Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp
Leu	Asn	Gly	Glu	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn
385 Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
465 Ser	Leu	Ser	Pro	Gly	Lys	Val				475					480
				485											

<210> 58

<211> 489

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 58

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

				85				90					95		
Gly	Thr	Thr	Leu	Thr	Val	Leu	Gly	Gln	Ser	Ser	Arg	Ser	Ser	Gly	Gly
			100					105					110		
Gly	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Met	Ala	Ala	Val	Thr	Leu	Asp
		115					120					125			
Glu	Ser	Gly	Gly	Gly	Leu	Gln	Thr	Pro	Gly	Gly	Ala	Leu	Ser	Leu	Val
	130					135					140				
Cys	Lys	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Asn	Met	Gly	Trp	Val
	145				150					155				160	
Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Phe	Val	Ala	Gly	Ile	Tyr	Ile
				165					170					175	
Ala	Ser	Gly	Asp	Leu	Gly	Thr	Thr	Tyr	Gly	Ala	Ala	Val	Gln	Gly	Arg
			180					185					190		
Ala	Thr	Ile	Ser	Arg	Asp	Asp	Gly	Gln	Ser	Thr	Val	Arg	Leu	Gln	Leu
		195					200					205			
Asn	Asn	Leu	Arg	Ala	Glu	Asp	Thr	Gly	Thr	Tyr	Phe	Cys	Ala	Lys	Ser
	210					215					220				
Ala	Gly	Gly	Cys	Ser	Ala	His	Ser	Cys	Asp	Thr	Tyr	Ile	Ala	Asp	Ser
	225				230					235				240	
Ile	Asp	Ala	Trp	Gly	His	Gly	Thr	Glu	Val	Ile	Val	Ser	Ser	Ser	Leu
				245					250					255	
Asp	Pro	Lys	Ser	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala
			260					265					270		
Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro
		275					280					285			
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val
	290					295					300				
Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val
	305				310					315				320	
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln
				325					330					335	
Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln
			340					345					350		
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala
		355					360					365			
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
	370					375					380				
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr
	385				390					395				400	
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
				405					410					415	
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
			420					425					430		
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr
		435					440					445			
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe
	450					455					460				
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys
	465				470					475					480
Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys	Val							
				485											

<210> 59

<211> 490

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 59

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

Thr 65	Asn	Thr	Leu	Thr	Ile 70	Thr	Gly	Val	Gln	Ala 75	Asp	Asp	Glu	Ala	Val 80
Tyr	Tyr	Cys	Gly	Asn 85	Glu	Asp	Asn	Ser	Tyr 90	Val	Gly	Ile	Phe	Gly 95	Ala
Gly	Thr	Thr	Leu 100	Thr	Val	Leu	Gly	Gln 105	Ser	Ser	Arg	Ser	Ser	Gly 110	Gly
Gly	Gly	Ser 115	Ser	Gly	Gly	Gly	Gly 120	Ser	Met	Ala	Ala	Val 125	Thr	Leu	Asp
Glu	Ser 130	Gly	Gly	Gly	Leu	Gln 135	Thr	Pro	Gly	Gly	Ala 140	Leu	Ser	Leu	Val
Cys 145	Lys	Ala	Ser	Gly	Phe 150	Thr	Phe	Ser	Ser	Tyr 155	Asn	Met	Gly	Trp	Val 160
Arg	Gln	Ala	Pro	Asp 165	Lys	Gly	Leu	Glu	Phe 170	Val	Ala	Gly	Ile	Tyr 175	Thr
Gly	Ser	Asp	Ala 180	Gly	Leu	Ser	Thr	Thr 185	Tyr	Gly	Ala	Ala	Val 190	Gln	Gly
Arg	Ala	Thr 195	Ile	Ser	Arg	Asp	Asn 200	Gly	Gln	Ser	Thr	Val 205	Arg	Leu	Gln
Leu	Asn 210	Asn	Leu	Gly	Ala	Glu 215	Asp	Thr	Gly	Ile	Tyr 220	Phe	Cys	Thr	Lys
Ser 225	Ala	Gly	Gly	Cys	Ser 230	Asp	Tyr	Asn	Cys	Asp 235	Ala	Tyr	Ile	Ala	Asp 240
Ser	Ile	Asp	Ala	Trp 245	Gly	His	Gly	Thr	Glu 250	Val	Ile	Val	Ser	Ser 255	Ser
Leu	Asp	Pro	Lys 260	Ser	Ser	Asp	Lys	Thr 265	His	Thr	Cys	Pro	Pro 270	Cys	Pro
Ala	Pro	Glu 275	Leu	Leu	Gly	Gly	Pro 280	Ser	Val	Phe	Leu	Phe 285	Pro	Pro	Lys
Pro	Lys 290	Asp	Thr	Leu	Met	Ile 295	Ser	Arg	Thr	Pro	Glu 300	Val	Thr	Cys	Val
Val 305	Val	Asp	Val	Ser	His 310	Glu	Asp	Pro	Glu	Val 315	Lys	Phe	Asn	Trp	Tyr 320
Val	Asp	Gly	Val	Glu 325	Val	His	Asn	Ala	Lys 330	Thr	Lys	Pro	Arg	Glu 335	Glu
Gln	Tyr	Asn	Ser 340	Thr	Tyr	Arg	Val	Val 345	Ser	Val	Leu	Thr	Val 350	Leu	His
Gln	Asp	Trp 355	Leu	Asn	Gly	Lys	Glu 360	Tyr	Lys	Cys	Lys	Val 365	Ser	Asn	Lys
Ala	Leu 370	Pro	Ala	Pro	Ile	Glu 375	Lys	Thr	Ile	Ser	Lys 380	Ala	Lys	Gly	Gln
Pro 385	Arg	Glu	Pro	Gln	Val 390	Tyr	Thr	Leu	Pro	Pro 395	Ser	Arg	Asp	Glu	Leu 400
Thr	Lys	Asn	Gln	Val 405	Ser	Leu	Thr	Cys	Leu 410	Val	Lys	Gly	Phe	Tyr 415	Pro
Ser	Asp	Ile	Ala 420	Val	Glu	Trp	Glu	Ser 425	Asn	Gly	Gln	Pro	Glu 430	Asn	Asn
Tyr	Lys	Thr 435	Thr	Pro	Pro	Val	Leu 440	Asp	Ser	Asp	Gly	Ser 445	Phe	Phe	Leu
Tyr	Ser 450	Lys	Leu	Thr	Val	Asp 455	Lys	Ser	Arg	Trp	Gln 460	Gln	Gly	Asn	Val
Phe 465	Ser	Cys	Ser	Val	Met 470	His	Glu	Ala	Leu	His 475	Asn	His	Tyr	Thr	Gln 480
Lys	Ser	Leu	Ser	Leu 485	Ser	Pro	Gly	Lys	Val 490						

<210> 60

<211> 489

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 60

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

Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Thr	Val	Gly	Ser	Lys
			20					25					30		
Leu	Ala	Trp	His	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35					40					45			
Tyr	Asp	Ala	Thr	Asn	Arg	Ala	Thr	Gly	Ile	Ser	Asp	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Thr
65					70					75				80	
Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Tyr	Tyr	Trp	Pro	Pro
				85					90					95	
Tyr	Arg	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Gly	Gln	Ser	Ser
			100					105					110		
Arg	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Val
		115					120					125			
Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu	Ser	Leu
					135						140				
Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Ser	Tyr	Ala	Met
145					150					155					160
Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Val	Ser	Arg
				165					170					175	
Ile	Asn	Ser	Gly	Gly	Gly	Thr	Asp	Tyr	Ala	Glu	Ser	Val	Lys	Gly	
			180				185					190			
Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Glu	Asn	Thr	Leu	Tyr	Leu	Gln
		195					200					205			
Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys
		210				215					220				
Gln	Tyr	Asp	Trp	Asn	Ser	Phe	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Ala	Leu
225				230						235					240
Val	Thr	Val	Ser	Ser	Ser	Leu	Asp	Pro	Lys	Ser	Ser	Asp	Lys	Thr	His
				245					250					255	
Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val
			260					265					270		
Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr
		275					280					285			
Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu
		290				295					300				
Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys
305				310						315					320
Thr	Lys	Pro	Arg	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	
				325				330					335		
Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys
			340					345					350		
Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile
		355					360					365			
Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro
		370				375					380				
Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu
385					390					395					400
Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn
				405					410					415	
Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser
			420					425					430		
Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg
		435					440					445			
Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu
		450				455					460				
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys	Val
465					470					475					480

<210> 62
 <211> 480
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 62
 Glu Thr Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly

1	Glu	Arg	Ala	Thr	5	Leu	Ser	Cys	Arg	Ala	10	Ser	Gln	Thr	Val	Gly	15	Ser	Lys
			20	His		Gln	Gln	Lys	Pro	25	Gly	Gln	Ala	Pro	Arg	30	Leu	Leu	Ile
		35							40						45				
	Tyr	Asp	Ala	Thr	Asn	Arg	Ala	Thr	55	Gly	Ile	Ser	Asp	Arg	60	Phe	Ser	Gly	
	50																		
	Ser	Arg	Ser	Gly	Thr	Asp	Phe	Thr	70	Leu	Thr	Ile	Ser	Ser	75	Leu	Gln	Thr	80
	65																		
	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	85	Gln	Gln	Tyr	Tyr	Tyr	90	Trp	Pro	Pro	
	Tyr	Arg	Phe	Gly	Gly	Gly	Thr	Lys	100	Val	Glu	Ile	Lys	Gly	105	Gln	Ser	Ser	
	Arg	Ser	Ser	Gly	Gly	Gly	Gly	Ser	115	Ser	Gly	Gly	Gly	Gly	120	Ser	Asp	Val	
	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	125	Val	Val	Arg	Pro	Gly	130	Glu	Ser	Leu	
	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	135	Phe	Ser	Phe	Ser	Ser	140	Tyr	Ala	Met	
	145																		
	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	150	Glu	Gly	Leu	Glu	Trp	155	Val	Ser	Arg	
	Ile	Asn	Ser	Gly	Gly	Gly	Gly	Thr	165	Asp	Tyr	Ala	Glu	Ser	170	Val	Lys	Gly	
	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	180	Ser	Glu	Asn	Thr	Leu	185	Tyr	Leu	Gln	
	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	195	Thr	Ala	Val	Tyr	Tyr	200	Cys	Ala	Lys	
	Gln	Tyr	Asp	Trp	Asn	Ser	Phe	Phe	210	Asp	Tyr	Trp	Gly	Leu	215	Gly	Ala	Leu	
	225																		
	Val	Thr	Val	Ser	Ser	Ser	Leu	Asp	230	Pro	Lys	Ser	Ser	Asp	235	Lys	Thr	His	
	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	245	Glu	Leu	Leu	Gly	Gly	250	Pro	Ser	Val	
	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	260	Asp	Thr	Leu	Met	Ile	265	Ser	Arg	Thr	
	Pro	Glu	Val	Thr	Cys	Val	Val	Val	275	Asp	Val	Ser	His	Glu	280	Asp	Pro	Glu	
	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	285	Gly	Val	Glu	Val	His	290	Asn	Ala	Lys	
	305																		
	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	310	Asn	Ser	Thr	Tyr	Arg	315	Val	Val	Ser	
	Val	Leu	Thr	Val	Leu	His	Gln	Asp	325	Trp	Leu	Asn	Gly	Lys	330	Glu	Tyr	Lys	
	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	340	Pro	Ala	Pro	Ile	Glu	345	Lys	Thr	Ile	
	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	355	Glu	Pro	Gln	Val	Tyr	360	Thr	Leu	Pro	
	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	370	Asn	Gln	Val	Ser	Leu	375	Cys	Leu		
	385																		
	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	390	Ile	Ala	Val	Glu	Trp	395	Glu	Ser	Asn	
	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	405	Thr	Thr	Pro	Pro	Val	410	Leu	Asp	Ser	
	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	420	Lys	Leu	Thr	Val	Asp	425	Lys	Ser	Arg	
	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	435	Cys	Ser	Val	Met	His	440	Glu	Ala	Leu	
	450																		
	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	465	Leu	Ser	Leu	Ser	Pro	470	Gly	Lys	Val	
	465																		

<210> 63
 <211> 480
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 63

Glu	Thr	Val	Leu	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	Gln	Thr	Val	Gly	Ser	Lys
			20					25					30		
Leu	Ala	Trp	His	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35					40					45			
Tyr	Asp	Ala	Thr	Asn	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Thr
65					70					75					80
Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Tyr	Tyr	Trp	Pro	Pro
				85					90					95	
Tyr	Arg	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Gly	Gln	Ser	Ser
			100					105					110		
Arg	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Ser	Arg	Gly	Gly	Gly	Ser	Asp	Val
		115					120					125			
Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu	Ser	Leu
	130					135					140				
Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Ser	Tyr	Ala	Met
145				150						155					160
Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Val	Ser	Arg
				165					170					175	
Ile	Asn	Ser	Gly	Gly	Gly	Gly	Thr	Asp	Tyr	Ala	Glu	Ser	Val	Lys	Gly
			180					185					190		
Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Glu	Asn	Thr	Leu	Tyr	Leu	Gln
		195					200					205			
Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys
	210					215					220				
Gln	Tyr	Asp	Trp	Asn	Gly	Phe	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Ala	Leu
225				230						235					240
Val	Thr	Val	Ser	Ser	Ser	Leu	Asp	Pro	Lys	Ser	Ser	Asp	Lys	Thr	His
				245					250					255	
Thr	Cys	Pro	Pro	Cys	Pro	Val	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val
			260					265					270		
Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr
		275					280					285			
Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu
	290					295					300				
Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys
305				310						315					320
Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser
				325					330					335	
Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys
			340					345					350		
Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile
		355					360					365			
Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro
	370					375					380				
Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu
385					390					395					400
Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn
				405					410					415	
Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser
			420					425					430		
Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg
		435					440					445			
Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu
	450					455					460				
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys	Val
465					470					475					480

<210> 64

<211> 480

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 64
 Glu Thr Val Leu 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 Gln Thr Val Gly Ser Lys
 20 25 30
 Leu Ala Trp His Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Arg Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Thr
 65 70 75 80
 Glu Asp Ser Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Tyr Trp Pro Pro
 85 90 95
 Tyr Arg Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Gly Gln Ser Ser
 100 105 110
 Arg Ser Ser Gly Gly Gly Gly Ser Ser Gly Gly Gly Gly Ser Asp Val
 115 120 125
 Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu Ser Leu
 130 135 140
 Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Ser Tyr Ala Met
 145 150 155 160
 Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser Arg
 165 170 175
 Ile Asn Ser Gly Gly Gly Gly Thr Asp Tyr Ala Glu Ser Val Lys Gly
 180 185 190
 Arg Phe Thr Ile Ser Arg Asp Asn Ser Glu Asn Thr Leu Tyr Leu Gln
 195 200 205
 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
 210 215 220
 Gln Tyr Asp Trp Asn Gly Phe Phe Asp Tyr Trp Gly Leu Gly Ala Leu
 225 230 235 240
 Val Thr Val Ser Ser Leu Asp Pro Lys Ser Ser Asp Lys Thr His
 245 250 255
 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
 260 265 270
 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 275 280 285
 Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 290 295 300
 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 305 310 315 320
 Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
 325 330 335
 Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 340 345 350
 Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
 355 360 365
 Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 370 375 380
 Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 385 390 395 400
 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 405 410 415
 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 420 425 430
 Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 435 440 445
 Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
 450 455 460
 His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Val
 465 470 475 480

<210> 65
 <211> 481
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Synthetic Construct

<400> 65
 Glu 1 Ile Val Leu Thr 5 Gln Ser Pro Ala 10 Thr Leu Ser Val Ser 15 Pro Gly
 Glu Arg Ala Thr 20 Phe Ser Cys Arg Ala 25 Ser Gln Asn Val Lys 30 Asn Asp
 Leu Ala Trp 35 Tyr Gln Gln Arg Pro 40 Gly Gln Ala Pro Arg 45 Leu Leu Ile
 Tyr Ala 50 Ala Arg Ile Arg Glu 55 Thr Gly Ile Pro Glu 60 Arg Phe Ser Gly
 Ser 65 Gly Ser Gly Thr Glu 70 Phe Thr Leu Thr Ile 75 Thr Ser Leu Gln Ser 80
 Glu Asp Phe Ala Val 85 Tyr Tyr Cys Gln Gln 90 Tyr Tyr Asp Trp Pro 95 Pro
 Phe Thr Phe Gly 100 Gly Gly Thr Lys Val 105 Glu Ile Lys Gly Gln 110 Ser Ser
 Arg Ser Ser Gly 115 Gly Gly Gly Ser Ser Gly Gly Gly Gly 125 Ser Asp Val
 Gln Leu 130 Leu Glu Ser Gly Gly 135 Gly Val Val Gln Pro 140 Gly Gly Ser Leu
 Arg 145 Leu Ser Cys Ala Ala 150 Ser Gly Phe Ser Phe 155 Ser Asn Phe Ala Met 160
 Thr Trp Val Arg Gln Ala Pro Gly Glu Gly 170 Leu Glu Trp Val Ser Thr 175
 Ile Gly Ser Gly 180 Asp Thr Tyr Tyr Ala 185 Asp Ser Val Lys Gly Arg Phe 190
 Thr Ile Ser 195 Arg Asp Asn Ser Lys 200 Asn Thr Leu Tyr Leu 205 Gln Met Asn
 Ser Leu 210 Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 220 Ala Lys Asp Ser
 Thr Val Ser Trp Ser Gly 230 Asp Phe Phe Asp Tyr Trp Gly Leu Gly Thr 240
 Leu Val Thr Val Ser 245 Ser Ser Leu Asp Pro 250 Lys Ser Ser Asp Lys 255 Pro
 His Thr Cys Pro 260 Pro Cys Pro Ala Pro 265 Glu Leu Leu Gly Gly Pro Ser
 Val Phe Leu Phe Pro Pro Lys Pro 280 Lys Asp Thr Leu Met Ile Ser Arg 285
 Thr Pro 290 Glu Val Thr Cys Val 295 Val Val Asp Val Ser 300 His Glu Asp Pro
 Glu Val Lys Phe Asn Trp 310 Tyr Val Asp Gly Val Glu Val His Asn Ala 320
 Lys Thr Lys Pro Arg 325 Glu Glu Gln Tyr Asn 330 Ser Thr Tyr Arg Val 335 Val
 Ser Val Leu Thr 340 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr 350
 Lys Cys Lys Val Ser Asn Lys Ala 360 Leu Pro Ala Pro Ile 365 Glu Lys Thr
 Ile Ser Lys Ala Lys Gly Gln 375 Pro Arg Glu Pro Gln Val Tyr Thr Leu 380
 Pro Pro Ser Arg Asp Glu 390 Leu Thr Lys Asn Gln Val Ser Leu Thr Cys 400
 Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile 410 Ala Val Glu Trp Glu Ser 415
 Asn Gly Gln Pro 420 Glu Asn Asn Tyr Lys 425 Thr Thr Pro Pro Val Leu Asp
 Ser Asp Gly Ser Phe Phe Leu Tyr 440 Ser Lys Leu Thr Val Asp Lys Ser 445
 Arg Trp 450 Gln Gln Gly Asn Val 455 Phe Ser Cys Ser Val Met His Glu Ala
 Leu 465 His Asn His Tyr Thr 470 Gln Lys Ser Leu Ser 475 Leu Ser Pro Gly Lys 480
 Val

<210> 66
 <211> 481
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 66

Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Val	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Ala	Thr	Phe	Ser	Cys	Arg	Ala	Ser	Gln	Asn	Val	Lys	Asn	Asp
			20					25					30		
Leu	Ala	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35					40					45			
Tyr	Ala	Ala	Arg	Ile	Arg	Glu	Thr	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Thr	Ser	Leu	Gln	Ser
65					70					75				80	
Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Tyr	Asp	Trp	Pro	Pro
				85					90					95	
Phe	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Gly	Gln	Ser	Ser
			100					105					110		
Arg	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Val
		115					120					125			
Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Gly	Ser	Leu
	130					135					140				
Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Asn	Phe	Ala	Met
145				150						155					160
Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Val	Ser	Thr
				165					170					175	
Ile	Gly	Ser	Gly	Asp	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe
			180					185					190		
Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn
		195					200					205			
Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Asp	Ser
	210					215					220				
Thr	Val	Ser	Trp	Ser	Gly	Asp	Phe	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Thr
225					230					235					240
Arg	Val	Thr	Val	Ser	Ser	Ser	Leu	Asp	Pro	Lys	Ser	Ser	Asp	Lys	Thr
				245					250					255	
His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser
			260					265					270		
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg
		275					280					285			
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro
	290					295					300				
Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala
305					310					315					320
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val
				325					330					335	
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr
			340					345					350		
Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr
		355					360					365			
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu
	370					375					380				
Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys
385					390					395					400
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser
				405					410					415	
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp
			420					425					430		
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser
		435					440					445			
Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala
	450					455					460				
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys
465					470					475					480
Val															

<210> 67

<211> 481
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 67

Glu 1	Ile	Val	Leu	Thr 5	Gln	Ser	Pro	Ala	Thr 10	Leu	Ser	Val	Ser	Pro 15	Gly
Glu	Arg	Ala	Thr 20	Phe	Ser	Cys	Arg	Ala 25	Ser	Gln	Asn	Val	Lys 30	Asn	Asp
Leu	Ala	Trp 35	Tyr	Gln	Gln	Arg	Pro 40	Gly	Gln	Ala	Pro	Arg 45	Leu	Leu	Ile
Tyr	Ala	Ala	Arg	Ile	Arg	Glu 55	Thr	Gly	Ile	Pro	Glu 60	Arg	Phe	Ser	Gly
Ser 65	Gly	Ser	Gly	Thr	Glu 70	Phe	Thr	Leu	Thr	Ile 75	Thr	Ser	Leu	Gln	Ser 80
Glu	Asp	Phe	Ala	Val 85	Tyr	Tyr	Cys	Gln	Gln 90	Tyr	Tyr	Asp	Trp	Pro 95	Pro
Phe	Thr	Phe	Gly 100	Gly	Gly	Thr	Lys	Val 105	Glu	Ile	Lys	Gly	Gln 110	Ser	Ser
Arg	Ser	Ser 115	Gly	Gly	Gly	Gly	Ser	Ser 120	Gly	Gly	Gly	Gly	Ser 125	Asp	Val
Gln	Leu 130	Val	Glu	Ser	Gly	Gly 135	Gly	Val	Val	Arg	Pro 140	Gly	Glu	Ser	Leu
Arg 145	Leu	Ser	Cys	Ala	Ala 150	Ser	Gly	Phe	Arg	Phe 155	Ser	Asn	Phe	Ala	Met 160
Thr	Trp	Val	Arg	Gln 165	Ala	Pro	Gly	Glu	Gly 170	Leu	Glu	Trp	Val	Ser 175	Thr
Ile	Gly	Ser	Gly 180	Asp	Thr	Tyr	Tyr	Ala 185	Asp	Ser	Val	Lys	Gly 190	Arg	Phe
Thr	Ile	Ser 195	Arg	Asp	Asn	Ser	Lys 200	Asn	Thr	Leu	Tyr	Leu 205	Gln	Met	Asn
Ser	Leu 210	Arg	Ala	Glu	Asp	Thr 215	Ala	Val	Tyr	Tyr	Cys 220	Ala	Lys	Asp	Ser
Thr 225	Val	Ser	Trp	Ser	Gly 230	Asp	Phe	Phe	Asp	Tyr 235	Trp	Gly	Leu	Gly	Thr 240
Leu	Val	Thr	Val	Ser 245	Ser	Ser	Leu	Asp	Pro 250	Lys	Ser	Ser	Asp	Lys 255	Thr
His	Thr	Cys	Pro 260	Pro	Cys	Pro	Ala	Pro 265	Glu	Leu	Leu	Gly	Gly 270	Pro	Ser
Val	Phe	Leu 275	Phe	Pro	Pro	Lys	Pro 280	Lys	Asp	Thr	Leu	Met 285	Ile	Ser	Arg
Thr	Pro 290	Glu	Val	Thr	Cys	Val 295	Val	Val	Asp	Val	Ser 300	His	Glu	Asp	Pro
Glu 305	Val	Lys	Phe	Asn	Trp 310	Tyr	Val	Asp	Gly	Val 315	Glu	Val	His	Asn	Ala 320
Lys	Thr	Lys	Pro	Arg 325	Glu	Glu	Gln	Tyr	Asn 330	Ser	Thr	Tyr	Arg	Val 335	Val
Ser	Val	Leu	Thr 340	Val	Leu	His	Gln	Asp 345	Trp	Leu	Asn	Gly	Lys 350	Glu	Tyr
Lys	Cys	Lys 355	Val	Ser	Asn	Lys	Ala 360	Leu	Pro	Ala	Pro	Ile 365	Glu	Lys	Thr
Ile	Ser 370	Lys	Ala	Lys	Gly	Gln 375	Pro	Arg	Glu	Pro	Gln 380	Val	Tyr	Thr	Leu
Pro 385	Pro	Ser	Arg	Asp	Glu 390	Leu	Thr	Lys	Asn	Gln 395	Val	Ser	Leu	Thr	Cys 400
Leu	Val	Lys	Gly	Phe 405	Tyr	Pro	Ser	Asp	Ile 410	Ala	Val	Glu	Trp	Glu 415	Ser
Asn	Gly	Gln	Pro 420	Glu	Asn	Asn	Tyr	Lys 425	Thr	Thr	Pro	Pro	Val 430	Leu	Asp
Ser	Asp	Gly 435	Ser	Phe	Phe	Leu	Tyr 440	Ser	Lys	Leu	Thr	Val 445	Asp	Lys	Ser
Arg	Trp 450	Gln	Gln	Gly	Asn	Val 455	Phe	Ser	Cys	Ser	Val 460	Met	His	Glu	Ala
Leu 465	His	Asn	His	Tyr	Thr 470	Gln	Lys	Ser	Leu	Ser 475	Leu	Ser	Pro	Gly	Lys 480
Val															

<210> 68
 <211> 478
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 68
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Val Thr Leu Thr Cys Arg Ala Ser Gln Gly Ile Ala Gly Lys
 20 25 30
 Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Gly Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Thr Ser Leu Gln Ser
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln His Tyr Asp Trp Ser Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Gly Gln Ser Ser
 100 105 110
 Arg Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val
 115 120 125
 Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
 130 135 140
 Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Arg Asn Tyr Gly Met
 145 150 155 160
 Ser Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser Ala
 165 170 175
 Ser Ser Gly Ser Gly Ser Thr Tyr Tyr Thr Asp Ser Val Lys Gly Arg
 180 185 190
 Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
 195 200 205
 Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Lys Val
 210 215 220
 Thr Trp Asn Asn Phe Phe Asp Tyr Trp Gly Leu Gly Thr Leu Val Thr
 225 230 235 240
 Val Ser Ser Ser Leu Asp Pro Lys Ser Ser Asp Lys Thr His Thr Cys
 245 250 255
 Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu
 260 265 270
 Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
 275 280 285
 Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
 290 295 300
 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
 305 310 315 320
 Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
 325 330 335
 Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
 340 345 350
 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
 355 360 365
 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 370 375 380
 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 385 390 395 400
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 405 410 415
 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
 420 425 430
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 435 440 445
 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
 450 455 460
 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Val

465

470

475

<210> 69

<211> 478

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 69

Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Thr	Leu	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Gly	Ser	Ser
			20					25					30		
Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu
		35					40					45			
Ile	Tyr	Asp	Ala	Thr	Asn	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65				70						75					80
Thr	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Tyr	Tyr	Trp	Pro
				85					90					95	
Pro	Tyr	Arg	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Gly	Gln	Ser
			100					105					110		
Ser	Arg	Ser	Ser	Gly	Gly	Gly	Ser	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Asp
		115					120					125			
Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu	Ser
	130					135					140				
Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr	Asp
145					150					155					160
Met	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Val	Ser
				165					170					175	
Gly	Ile	Ser	Gly	Asn	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
			180					185					190		
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu
		195					200					205			
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
	210					215					220				
Met	Asn	Arg	Trp	Trp	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Thr	Leu	Val	Thr
225					230					235					240
Val	Ser	Ser	Ser	Leu	Asp	Pro	Lys	Ser	Ser	Asp	Lys	Thr	His	Thr	Cys
				245					250					255	
Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu
			260					265					270		
Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu
		275					280					285			
Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys
	290					295					300				
Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys
305					310					315					320
Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu
				325					330					335	
Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys
			340					345					350		
Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys
		355					360					365			
Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser
	370					375					380				
Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys
385					390					395					400
Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln
				405					410					415	
Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly
			420					425					430		
Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln
		435					440					445			
Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn
	450					455					460				

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Val
 465 470 475

<210> 70
 <211> 480
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 70
 Glu Thr Val Leu 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 Gln Thr Val Gly Ser Lys
 20 25 30
 Leu Ala Trp His Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Thr
 65 70 75 80
 Glu Asp Ser Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Tyr Trp Pro Pro
 85 90 95
 Tyr Arg Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Gly Gln Ser Ser
 100 105 110
 Arg Ser Ser Gly Gly Gly Gly Ser Ser Gly Gly Gly Gly Ser Asp Val
 115 120 125
 Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu Ser Leu
 130 135 140
 Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Arg Ser Tyr Ala Met
 145 150 155 160
 Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser Arg
 165 170 175
 Ile Asp Ser Gly Gly Gly Gly Thr Asp Tyr Ala Asp Ser Val Lys Gly
 180 185 190
 Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
 195 200 205
 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
 210 215 220
 Gln Tyr Asp Trp Asn Ser Phe Phe Asp Tyr Trp Gly Leu Gly Ala Pro
 225 230 235 240
 Val Thr Val Ser Ser Leu Asp Pro Lys Ser Ser Asp Lys Thr His
 245 250 255
 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
 260 265 270
 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 275 280 285
 Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 290 295 300
 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 305 310 315 320
 Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
 325 330 335
 Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 340 345 350
 Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
 355 360 365
 Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 370 375 380
 Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 385 390 395 400
 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 405 410 415
 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 420 425 430
 Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 435 440 445
 Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu

	450				455					460					
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys	Val
465					470					475					480

<210> 71
 <211> 483
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 71															
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Val	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Asn	Val	Arg	Ser	Asp
			20					25					30		
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Leu	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35					40					45			
Tyr	Asp	Ala	Asn	Thr	Arg	Ala	Thr	Asp	Ile	Pro	Asp	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	Tyr	Tyr	Asp	Trp	Pro	Pro
				85					90					95	
Val	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Gly	Gln	Ser	Ser
			100					105					110		
Arg	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Val
		115					120					125			
Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu	Ser	Leu
	130					135					140				
Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr	Ala	Met
145				150						155					160
Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Val	Ser	Leu
			165						170					175	
Ile	Thr	Thr	Asn	Gly	Asp	Gly	Ala	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly
			180					185					190		
Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln
		195					200					205			
Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys	Ala	Lys
	210					215					220				
Asp	Gly	Ala	Ala	His	Tyr	Tyr	Asp	Ile	Phe	Phe	Asp	Tyr	Trp	Gly	Leu
225					230					235					240
Gly	Thr	Pro	Val	Thr	Val	Ser	Ser	Ser	Leu	Asp	Pro	Lys	Ser	Ser	Asp
				245					250					255	
Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly
			260					265					270		
Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile
		275					280					285			
Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu
	290					295					300				
Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His
305					310					315					320
Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg
				325					330					335	
Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys
			340					345					350		
Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu
		355					360					365			
Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr
	370					375					380				
Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu
385					390					395					400
Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp
				405					410					415	
Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val
			420					425					430		
Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp
		435					440					445			

Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His
	450					455					460				
Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro
465					470					475					480
Gly	Lys	Val													

<210> 72
 <211> 481
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 72															
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Val	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Val	Thr	Phe	Ser	Cys	Arg	Ala	Ser	Gln	Asn	Val	Arg	Ser	Asp
			20					25					30		
Ile	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35					40					45			
Tyr	Ala	Ala	Ser	Ser	Arg	Asp	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ser
65					70					75					80
Glu	Asp	Phe	Gly	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Tyr	Asp	Trp	Pro	Pro
				85					90					95	
Phe	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Gly	Gln	Ser	Ser
			100					105					110		
Arg	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Val
		115					120					125			
Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu	Ser	Leu
	130					135					140				
Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Ile	Tyr	Ala	Met
145					150					155					160
Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Val	Ser	Thr
				165					170					175	
Ile	Gly	Ala	Asp	Asp	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe
			180					185					190		
Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn
		195					200					205			
Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Asp	Ser
	210					215					220				
Thr	Val	Gly	Trp	Ser	Gly	Asp	Phe	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Thr
225					230					235					240
Leu	Val	Thr	Val	Ser	Ser	Ser	Leu	Asp	Pro	Lys	Ser	Ser	Asp	Lys	Thr
				245					250					255	
His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser
			260					265					270		
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg
		275					280					285			
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro
	290					295					300				
Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala
305					310					315					320
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val
				325					330					335	
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr
			340					345					350		
Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr
		355					360					365			
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu
	370					375					380				
Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys
385					390					395					400
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser
				405					410					415	
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp

Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn
				405					410					415	
Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser
			420					425					430		
Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg
		435					440					445			
Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu
	450					455					460				
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys	Val
465					470					475					480

<210> 74
 <211> 315
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 74															
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Val	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Val	Ile	Leu	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Val	Asp	Thr	Tyr
			20					25					30		
Asn	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu
		35					40					45			
Ile	Tyr	Asp	Leu	Ser	Thr	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser
	50					55				60					
Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Asn	Ser	Leu	Glu
65					70				75					80	
Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	His	Gln	Tyr	Tyr	Asp	Trp	Pro
				85					90					95	
Pro	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Gly	Gln	Ser
			100					105					110		
Ser	Arg	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Asp
		115						120				125			
Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu	Ser
	130					135					140				
Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr	Ala
145					150				155						160
Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Val	Ser
				165					170					175	
Gly	Ile	Ser	Gly	Arg	Gly	Gly	Asp	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
			180					185					190		
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu
		195					200					205			
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys	Ala
	210					215					220				
Lys	Gly	Thr	Trp	Asn	Tyr	Gly	Ser	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Thr
225				230						235					240
Leu	Val	Thr	Val	Ser	Ser	Ser	Leu	Asp	Pro	Lys	Ser	Ser	Asp	Lys	Thr
				245					250					255	
Asp	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser
			260					265					270		
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg
		275					280					285			
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro
	290					295					300				
Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val					
305					310					315					

<210> 75
 <211> 481
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 75
 Glu 1 Ile Val Leu Thr 5 Gln Ser Pro Ala 10 Thr Leu Ser Val Ser 15 Pro Gly
 Glu Arg Ala Thr 20 Phe Ser Cys Arg Ala 25 Ser Gln Asn Val Lys 30 Asn Asp
 Leu Ala Trp 35 Tyr Gln Gln Arg Pro 40 Gly Gln Ala Pro Arg 45 Leu Leu Ile
 Tyr Ala 50 Ala Arg Ile Arg Glu 55 Thr Gly Ile Pro Glu 60 Arg Phe Ser Gly
 Ser 65 Gly Ser Gly Thr Glu 70 Phe Thr Leu Thr Ile 75 Thr Ser Leu Gln Ser 80
 Glu Asp Phe Ala Val 85 Tyr Tyr Cys Gln Gln 90 Tyr Tyr Asp Trp Pro 95 Pro
 Phe Thr Phe Gly 100 Gly Gly Thr Lys Val 105 Glu Ile Lys Gly Gln 110 Ser Ser
 Arg Ser Ser Gly 115 Gly Gly Gly Ser Ser Gly Gly Gly Gly 125 Ser Asp Val
 Gln Leu Val Glu Ser Gly Gly 135 Gly Val Val Gln Pro 140 Gly Gly Ser Leu
 Arg 145 Leu Ser Cys Ala Ala 150 Ser Gly Phe Ser Phe 155 Ser Asn Phe Ala Met 160
 Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser Thr 175
 Ile Gly Ser Gly 180 Asp Thr Tyr Tyr Ala 185 Asp Ser Val Lys Gly Arg Phe 190
 Thr Ile Ser Arg Asp Asn Ser Lys 200 Asn Thr Leu Tyr Leu Gln Met Asn 205
 Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 220 Ala Lys Asp Ser 210
 Thr Val Ser Trp Ser Gly Asp Phe Phe Asp Tyr Trp Gly Leu Gly Thr 240
 225 Leu Val Thr Val Ser 230 Ser Ser Leu Asp Pro 250 Lys Ser Ser Asp Lys Thr 255
 His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser 270
 Val Phe Leu Phe Pro Pro Lys Pro 280 Lys Asp Thr Leu Met Ile Ser Arg 285
 Thr Pro Glu Val Thr Cys Val 295 Val Val Asp Val Ser His Glu Asp Pro 300
 Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala 320
 305 Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn 330 Ser Thr Tyr Arg Val Val 335
 Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr 350
 Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr 365
 Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu 380
 Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys 400
 385 Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser 415
 Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp 430
 Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser 445
 Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala 460
 450 Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys 480
 465 Val

<210> 76
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 76
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu Leu Cys Thr Val Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Ser Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 77
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 77
 Glu Glu Gly Leu Gln Val Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Ala Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

<210> 78
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 78
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Phe Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

<210> 79
 <211> 119

<212> PRT
 <213> Homo sapiens

<400> 79
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Pro Ile Arg Ile Gly Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

<210> 80
 <211> 118
 <212> PRT
 <213> Homo sapiens

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

<210> 81
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 81
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Ser Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 82
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 82
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala
 1 5 10 15
 Ala Gly Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Asp Leu Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu
 100 105 110
 Ser Val Arg Ala Lys Pro Ser
 115

<210> 83
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 83
 Glu Glu Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Ser Val Ala
 1 5 10 15
 Ala Gly Glu Ser Ala Ile Leu His Cys Thr Val Thr Ser Leu Ile Pro
 20 25 30
 Val Gly Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Ala Arg Glu Leu
 35 40 45
 Ile Tyr Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser
 50 55 60
 Glu Ser Thr Lys Arg Glu Asn Met Asp Phe Ser Ile Ser Ile Ser Asn
 65 70 75 80
 Ile Thr Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys
 85 90 95
 Gly Ser Pro Asp Thr Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser
 100 105 110
 Val Arg Ala Lys Pro Ser
 115

<210> 84
 <211> 110
 <212> PRT
 <213> Gallus gallus

<400> 84
 Asp Phe Lys Leu Gln Gln Pro Gln Ser Ser Val Val Val Ile Lys Gly
 1 5 10 15
 Asp Thr Leu Thr Leu Asn Cys Thr Ala Ser Gly Ser Gly Pro Ile Gly
 20 25 30
 Ala Val Lys Trp Val Lys Gly Trp Gly Ser Asp Asn Gln Thr Val Tyr
 35 40 45
 Glu His Lys Gly Ser Phe Pro Arg Val Met Arg Ala Val Pro Asp Pro
 50 55 60
 Thr Asn Asp Phe Thr Ile Arg Ile Ser Asn Val Ser Leu Glu Asp Ala
 65 70 75 80
 Gly Thr Tyr Tyr Cys Val Lys Leu Arg Lys Gly Ile Val Asp Asp Val
 85 90 95
 Val Phe Thr Arg Gly Gly Gly Thr Glu Val Ser Val His Ala
 100 105 110

<210> 85
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 86
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 86
 Ala Val Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Arg Ile Thr Cys Ser Gly Asp Ser Ser Tyr Tyr Ser Trp His Gln
 20 25 30
 Gln Lys Ser Pro Gly Ser Ala Pro Val Ser Val Ile Tyr Ser Asn Thr
 35 40 45
 Asp Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Ala Ser Gly
 50 55 60
 Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp Glu Ala
 65 70 75 80
 Val Tyr Phe Cys Gly Ala Tyr Asp Ser Ser Ser Asp Ser Asp Ile Phe
 85 90 95
 Gly Ala Gly Thr Thr Leu Thr Val Leu
 100 105

<210> 87
 <211> 103
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 87
 Ala Val Thr Gln Pro Ser Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Glu Ile Thr Cys Ser Gly Ser Ser Thr Tyr Tyr Gly Trp Tyr Gln Gln
 20 25 30
 Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Asp Asn Asp Lys
 35 40 45
 Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Ser
 50 55 60
 Thr His Thr Leu Ile Ile Thr Gly Val Gln Val Glu Asp Glu Ala Val
 65 70 75 80
 Tyr Phe Cys Gly Asn Glu Asp Asn Asn Tyr Val Ala Ile Phe Gly Ala

Gly Thr Thr Leu⁸⁵ Thr Val Leu⁹⁰ 95
100

<210> 88
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 88
Ala Leu Thr Gln Pro Ser Ser Val Ser Ala Asn Pro Gly Glu Thr Val
1 5 10 15
Lys Ile Thr Cys Ser Gly Asp Asn Ser Ala His Tyr Tyr Tyr Gly Trp
20 25 30
Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Tyr
35 40 45
Asn Asp Lys Arg Pro Ser Gly Ile Pro Ser Arg Phe Ser Gly Ser Ala
50 55 60
Ser Gly Ser Thr Ala Thr Leu Ile Ile Thr Gly Val Gln Val Glu Asp
65 70 75 80
Glu Ala Val Tyr Phe Cys Gly Ser Ala Asp Ser Ser Asn Pro Ala Ile
85 90 95
Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
100 105

<210> 89
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 89
Ala Val Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
1 5 10 15
Lys Ile Thr Cys Ser Gly Ser Ser Ser Gly Ser Tyr Gly Trp Tyr Gln
20 25 30
Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Leu Ile Tyr Glu Thr Asn
35 40 45
Lys Arg Pro Ser Asn Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly
50 55 60
Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Asp Asp Glu Ala
65 70 75 80
Val Tyr Tyr Cys Gly Ser Glu Asp Ser Ser Thr Tyr Leu Ser Ile Phe
85 90 95
Gly Ala Gly Thr Thr Leu Thr Val Leu
100 105

<210> 90
<211> 103
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 90
Ala Val Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
1 5 10 15
Lys Ile Thr Cys Ser Gly Asp Ser Ser Tyr Tyr Gly Trp Tyr Gln Gln
20 25 30
Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Asp Asp Asn Lys
35 40 45

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

<210> 91
 <211> 103
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 91
 Ala Val Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Lys Ile Thr Cys Ser Gly Ser Ser Ser Tyr Tyr Gly Trp Tyr Arg Gln
 20 25 30
 Lys Ser Pro Gly Ser Ala Pro Val Thr Leu Ile Tyr Asp Asn Asp Lys
 35 40 45
 Arg Pro Ser Gly Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Ser
 50 55 60
 Thr Asn Thr Leu Thr Ile Thr Gly Val Gln Ala Asp Asp Glu Ala Val
 65 70 75 80
 Tyr Tyr Cys Gly Asn Glu Asp Asn Ser Tyr Val Gly Ile Phe Gly Ala
 85 90 95
 Gly Thr Thr Leu Thr Val Leu
 100

<210> 92
 <211> 103
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 92
 Ala Val Thr Gln Pro Ala Ser Val Ser Ala Asn Leu Gly Glu Thr Val
 1 5 10 15
 Lys Ile Thr Cys Ser Gly Asp Ser Ser Tyr Tyr Gly Trp Tyr Gln Gln
 20 25 30
 Lys Ala Pro Gly Ser Ala Pro Val Thr Leu Ile Tyr Asp Asn Asp Lys
 35 40 45
 Arg Pro Ser Asn Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Ser
 50 55 60
 Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Asp Asp Glu Ala Val
 65 70 75 80
 Tyr Tyr Cys Gly Asn Glu Asp Met Asn Tyr Val Gly Ile Phe Gly Ala
 85 90 95
 Gly Thr Thr Leu Thr Val Leu
 100

<210> 93
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 93
 Glu Thr Val Leu 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	Gln	Thr	Val	Gly	Ser	Lys
			20					25					30		
Leu	Ala	Trp	His	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35					40					45			
Tyr	Asp	Ala	Thr	Asn	Arg	Ala	Thr	Gly	Ile	Ser	Asp	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Thr
65					70					75				80	
Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Tyr	Tyr	Trp	Pro	Pro
				85					90					95	
Tyr	Arg	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys				
			100					105							

<210> 94
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 94															
Glu	Thr	Val	Leu	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	Gln	Thr	Val	Gly	Ser	Lys
			20					25					30		
Leu	Ala	Trp	His	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35					40					45			
Tyr	Asp	Ala	Thr	Asn	Arg	Ala	Thr	Gly	Ile	Ser	Asp	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Arg	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Thr
65					70					75				80	
Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Tyr	Tyr	Trp	Pro	Pro
				85					90					95	
Tyr	Arg	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys				
			100					105							

<210> 95
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 96
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 96
 Glu Thr Val Leu 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 Gln Thr Val Gly Ser Lys
 20 25 30
 Leu Ala Trp His Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Arg Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Thr
 65 70 75 80
 Glu Asp Ser Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Tyr Trp Pro Pro
 85 90 95
 Tyr Arg Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 97
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 97
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Phe Ser Cys Arg Ala Ser Gln Asn Val Lys Asn Asp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Ala Ala Arg Ile Arg Glu Thr Gly Ile Pro Glu Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Thr Ser Leu Gln Ser
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Trp Pro Pro
 85 90 95
 Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 98
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 98
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Phe Ser Cys Arg Ala Ser Gln Asn Val Lys Asn Asp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Ala Ala Arg Ile Arg Glu Thr Gly Ile Pro Glu Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Thr Ser Leu Gln Ser
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Trp Pro Pro
 85 90 95
 Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 99
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 99
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Phe Ser Cys Arg Ala Ser Gln Asn Val Lys Asn Asp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Ala Ala Arg Ile Arg Glu Thr Gly Ile Pro Glu Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Thr Ser Leu Gln Ser
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Trp Pro Pro
 85 90 95
 Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 100
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 101
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 101
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Thr Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser
 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Asp Ala Thr Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Thr Glu Asp Ser Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Tyr Trp Pro

Pro Tyr Arg Phe⁸⁵ Gly Gly Gly Thr Lys⁹⁰ Val Glu Ile Lys⁹⁵
100 105

<210> 102
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 102
Glu Thr Val Leu 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 Gln Thr Val Gly Ser Lys
20 25 30
Leu Ala Trp His Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Thr
65 70 75 80
Glu Asp Ser Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Tyr Trp Pro Pro
85 90 95
Tyr Arg Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 103
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 103
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Val Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Asn Val Arg Ser Asp
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Leu Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Asp Ala Asn Thr Arg Ala Thr Asp Ile Pro Asp 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 Tyr Tyr Asp Trp Pro Pro
85 90 95
Val Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 104
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 104
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1 5 10 15
Glu Arg Val Thr Phe Ser Cys Arg Ala Ser Gln Asn Val Arg Ser Asp
20 25 30
Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

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

<210> 105
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 106
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 106
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Val Ile Leu Thr Cys Arg Ala Ser Gln Ser Val Asp Thr Tyr
 20 25 30
 Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Asp Leu Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Asn Ser Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys His Gln Tyr Tyr Asp Trp Pro
 85 90 95
 Pro Tyr Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 107
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 107
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly

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

<210> 108
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 108	Ala	Val	Thr	Leu	Asp	Glu	Ser	Gly	Gly	Gly	Leu	Gln	Thr	Pro	Gly	Gly
1				5					10						15	
	Ala	Leu	Ser	Leu	Val	Cys	Lys	Gly	25	Gly	Phe	Thr	Phe	Ser	Ser	His
				20										30		
	Ala	Met	Asn	Trp	Val	Arg	Gln	Ala	40	Pro	Gly	Lys	Gly	Leu	Glu	Trp
			35											45		
	Ala	Gly	Ile	Ser	Ser	Asp	Gly	Arg	55	Phe	Thr	Tyr	Tyr	Gly	Ala	Ala
			50											60		Val
	Gln	Gly	Arg	Ala	Thr	Ile	Ser	Arg	70	Asp	Asn	Gly	Gln	Ser	Thr	Val
65																80
	Leu	Gln	Leu	Asn	Asn	Leu	Arg	Ala	85	Glu	Asp	Thr	Ala	Thr	Tyr	Tyr
																Cys
																95
	Thr	Lys	Asn	Gly	Gly	Cys	Gly	Ser	100	Gly	Gly	Asp	Leu	Asp	Cys	Ile
																110
	Ala	Trp	Gly	His	Gly	Thr	Glu	Val	105	Ile	Val	Ser	Ser			
			115													

<210> 109
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 109	Ala	Val	Thr	Leu	Asp	Glu	Ser	Gly	Gly	Gly	Leu	Gln	Thr	Pro	Gly	Gly
1				5					10						15	
	Gly	Leu	Ser	Leu	Val	Cys	Lys	Ala	25	Gly	Phe	Asp	Phe	Ser	Asn	Phe
				20										30		
	Asn	Met	Ala	Trp	Val	Arg	Gln	Gly	40	Pro	Gly	Lys	Gly	Leu	Glu	Tyr
			35											45		Val
	Ala	Glu	Ile	Ser	Asp	Thr	Gly	Ser	55	Thr	Pro	Tyr	Tyr	Gly	Ser	Ala
			50											60		Val
	Gln	Gly	Arg	Ala	Thr	Ile	Ser	Arg	70	Asp	Asn	Gly	Gln	Ser	Thr	Val
65																80
	Leu	Gln	Leu	Asn	Asn	Leu	Arg	Ala	85	Glu	Asp	Thr	Gly	Thr	Tyr	Phe
																95
	Thr	Arg	Asn	Phe	Gly	Ser	Ser	Val	100	Ser	Ser	Ile	Asp	Ala	Trp	Gly
																110
	Gly	Thr	Glu	Val	Ile	Val	Ser	Ser	105							
			115													

<210> 110

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

<220>
 <223> Synthetic Construct

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

<210> 111
 <211> 128
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 111
 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Arg
 1 5 10 15
 Ala Leu Ser Leu Val Cys Arg Gly Ser Gly Phe Ser Ile Ser Ser Tyr
 20 25 30
 Asn Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Ile
 35 40 45
 Ala Ser Ile Gly Ser Asp Gly Ser Ser Thr His Tyr Ala Pro Ala Val
 50 55 60
 Lys Gly Arg Ala Thr Ile Thr Arg Asp Val Gly Gln Ser Thr Val Arg
 65 70 75 80
 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Phe Cys
 85 90 95
 Ala Lys Asp Ala Tyr Gln Cys Ser Tyr Ala Thr Cys Asn Asp Tyr Leu
 100 105 110
 Asp Thr Ile Asp Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
 115 120 125

<210> 112
 <211> 127
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 112
 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
 1 5 10 15
 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Phe
 20 25 30
 Asn Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45

Ala	Ala	Ile	Tyr	Ser	Gly	Asn	Ser	Ala	Glu	Tyr	Gly	Ala	Ala	Val	Gln
	50					55					60				
Gly	Arg	Ala	Thr	Ile	Ser	Arg	Asp	Asn	Gly	Gln	Ser	Thr	Val	Arg	Leu
65				70					75						80
Gln	Leu	Asn	Asn	Leu	Arg	Ala	Glu	Asp	Thr	Gly	Ile	Tyr	Phe	Cys	Ala
			85						90					95	
Lys	Asp	Ala	Gly	Ser	Gly	Cys	Tyr	Ser	Gly	Val	Cys	Ala	Gly	Thr	Ser
			100					105					110		
Ser	Ile	Asp	Ala	Trp	Gly	His	Gly	Thr	Glu	Val	Ile	Val	Ser	Ser	
		115					120					125			

<210> 113
 <211> 131
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 113															
Ala	Val	Thr	Leu	Asp	Glu	Ser	Gly	Gly	Gly	Leu	Gln	Thr	Pro	Gly	Gly
1				5					10					15	
Ala	Leu	Ser	Leu	Val	Cys	Lys	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
			20					25					30		
Asn	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Phe	Val
		35					40					45			
Ala	Gly	Ile	Tyr	Ile	Ala	Ser	Gly	Asp	Leu	Gly	Thr	Thr	Tyr	Gly	Ala
	50					55					60				
Ala	Val	Gln	Gly	Arg	Ala	Thr	Ile	Ser	Arg	Asp	Asp	Gly	Gln	Ser	Thr
65				70					75					80	
Val	Arg	Leu	Gln	Leu	Asn	Asn	Leu	Arg	Ala	Glu	Asp	Thr	Gly	Thr	Tyr
				85					90					95	
Phe	Cys	Ala	Lys	Ser	Ala	Gly	Gly	Cys	Ser	Ala	His	Ser	Cys	Asp	Thr
			100					105					110		
Tyr	Ile	Ala	Asp	Ser	Ile	Asp	Ala	Trp	Gly	His	Gly	Thr	Glu	Val	Ile
		115					120					125			
Val	Ser	Ser													
			130												

<210> 114
 <211> 132
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 114															
Ala	Val	Thr	Leu	Asp	Glu	Ser	Gly	Gly	Gly	Leu	Gln	Thr	Pro	Gly	Gly
1				5					10					15	
Ala	Leu	Ser	Leu	Val	Cys	Lys	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
			20					25					30		
Asn	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Asp	Lys	Gly	Leu	Glu	Phe	Val
		35					40					45			
Ala	Gly	Ile	Tyr	Thr	Gly	Ser	Asp	Ala	Gly	Leu	Ser	Thr	Thr	Tyr	Gly
	50					55					60				
Ala	Ala	Val	Gln	Gly	Arg	Ala	Thr	Ile	Ser	Arg	Asp	Asn	Gly	Gln	Ser
65				70					75					80	
Thr	Val	Arg	Leu	Gln	Leu	Asn	Asn	Leu	Gly	Ala	Glu	Asp	Thr	Gly	Ile
				85					90					95	
Tyr	Phe	Cys	Thr	Lys	Ser	Ala	Gly	Gly	Cys	Ser	Asp	Tyr	Asn	Cys	Asp
			100					105					110		
Ala	Tyr	Ile	Ala	Asp	Ser	Ile	Asp	Ala	Trp	Gly	His	Gly	Thr	Glu	Val
		115					120					125			
Ile	Val	Ser	Ser												
			130												

<210> 115
 <211> 131
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 116
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 116
 Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu Ser
 1 5 10 15
 Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Ser Tyr Ala
 20 25 30
 Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser
 35 40 45
 Arg Ile Asn Ser Gly Gly Gly Gly Thr Asp Tyr Ala Glu Ser Val Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Glu Asn Thr Leu Tyr Leu
 65 70 75 80
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Lys Gln Tyr Asp Trp Asn Ser Phe Phe Asp Tyr Trp Gly Leu Gly Ala
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 117
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 117
 Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu Ser
 1 5 10 15
 Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Ser Tyr Ala
 20 25 30
 Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 120

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

<210> 121

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 121

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

<210> 122

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 122

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

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Asp
 85 90 95
 Ser Thr Val Ser Trp Ser Gly Asp Phe Phe Asp Tyr Trp Gly Leu Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

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

<220>
 <223> Synthetic Construct

<400> 123
 Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
 1 5 10 15
 Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Arg Asn Tyr Gly
 20 25 30
 Met Ser Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser
 35 40 45
 Ala Ser Ser Gly Ser Gly Ser Thr Tyr Tyr Thr Asp Ser Val Lys Gly
 50 55 60
 Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
 65 70 75 80
 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Lys
 85 90 95
 Val Thr Trp Asn Asn Phe Phe Asp Tyr Trp Gly Leu Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 124
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 124
 Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu Ser
 1 5 10 15
 Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr Asp
 20 25 30
 Met Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser
 35 40 45
 Gly Ile Ser Gly Asn Gly Gly Ser Thr Tyr Tyr Ala 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 Ala
 85 90 95
 Met Asn Arg Trp Trp Phe Asp Tyr Trp Gly Leu Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser Ser
 115

<210> 125
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 126
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 126
Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu Ser
1 5 10 15
Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr Ala
20 25 30
Met Ser Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser
35 40 45
Leu Ile Thr Thr Asn Gly Asp Gly Ala Tyr Tyr Ala 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 Ile Tyr Tyr Cys Ala
85 90 95
Lys Asp Gly Ala Ala His Tyr Tyr Asp Ile Phe Phe Asp Tyr Trp Gly
100 105 110
Leu Gly Thr Pro Val Thr Val Ser Ser
115 120

<210> 127
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 127
Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu Ser
1 5 10 15
Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Ile Tyr Ala
20 25 30
Met Ser Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser
35 40 45
Thr Ile Gly Ala Asp Asp Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg
50 55 60
Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
65 70 75 80
Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Asp
85 90 95
Ser Thr Val Gly Trp Ser Gly Asp Phe Phe Asp Tyr Trp Gly Leu Gly
100 105 110
Thr Leu Val Thr Val Ser Ser

<210> 128
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 128
 Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu Ser
 1 5 10 15
 Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Asp
 20 25 30
 Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser
 35 40 45
 Leu Ile Ser Gly Ser Gly Glu Ile Ile Tyr Tyr Ala 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 Ala
 85 90 95
 Lys Glu Asn Asn Arg Tyr Arg Phe Phe Asp Asp Trp Gly Leu Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 129
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 129
 Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu Ser
 1 5 10 15
 Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr Ala
 20 25 30
 Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser
 35 40 45
 Gly Ile Ser Gly Arg Gly Gly Asp Thr Tyr Tyr Ala 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 Ile Tyr Tyr Cys Ala
 85 90 95
 Lys Gly Thr Trp Asn Tyr Gly Ser Phe Asp Tyr Trp Gly Leu Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 130
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 131
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 131
 Ala Pro Val Val Ser Gly Pro Ala Ala Arg Ala Thr Pro Gln His Thr
 1 5 10 15
 Val Ser Phe Thr Cys Glu Ser His Gly Phe Ser Pro Arg Asp Ile Thr
 20 25 30
 Leu Lys Trp Phe Lys Asn Gly Asn Glu Leu Ser Asp Phe Gln Thr Asn
 35 40 45
 Val Asp Pro Val Gly Glu Ser Val Ser Tyr Ser Ile His Ser Thr Ala
 50 55 60
 Lys Val Val Leu Thr Arg Glu Asp Val His Ser Gln Val Ile Cys Glu
 65 70 75 80
 Val Ala His Val Thr Leu Gln Gly Asp Pro 90 Leu Arg Gly Thr Ala Asn
 85 95
 Leu Ser Glu Thr Ile Arg
 100

<210> 132
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 132
 Val Pro Pro Thr Leu Glu Val Thr Gln Gln Pro Val Arg Ala Glu Asn
 1 5 10 15
 Gln Val Asn Val Thr Cys Gln Val Arg Lys Phe Tyr Pro Gln Arg Leu
 20 25 30
 Gln Leu Thr Trp Leu Glu Asn Gly Asn Val Ser Arg Thr Glu Thr Ala
 35 40 45
 Ser Thr Val Thr Glu Asn Lys Asp Gly Thr Tyr Asn Trp Met Ser Trp
 50 55 60
 Leu Leu Val Asn Val Ser Ala His Arg Asp Asp Val Lys Leu Thr Cys
 65 70 75 80
 Gln Val Glu His Asp Gly Gln Pro Ala Val 90 Ser Lys Ser His Asp Leu
 85 95
 Lys Val Ser

<210> 133
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 133
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 136

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

<210> 137

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 137

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

<210> 138

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 138

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

Pro Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
100 105

<210> 139
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 139
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Arg Phe 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
Ser Gly Ile Ser Ser Gly Gly Asp Thr Tyr Tyr Val 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 Val Asn Ser Leu Thr Ala Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95
Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 140
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 140
Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asp Leu Gly Glu Thr Val
1 5 10 15
Lys Ile Thr Cys Ser Gly Gly Asp Ser Ser Ser His Tyr Tyr Gly Trp
20 25 30
Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Ser
35 40 45
Asp Asp Glu Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Ala
50 55 60
Ser Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Arg Val Glu Asp
65 70 75 80
Glu Ala Ile Tyr Tyr Cys Gly Ala Tyr Asp Gly Ser Thr Tyr Ala Asn
85 90 95
Thr Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
100 105

<210> 141
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210>	142
<211>	107
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Synthetic Construct

<400>	142															
Ala	Leu	Thr	Gln	Pro	Ala	Ser	Val	Ser	Ala	Asn	Pro	Gly	Glu	Thr	Val	
1				5					10				15			
Lys	Ile	Thr	Cys	Ser	Gly	Gly	Asp	Tyr	Tyr	Ser	Thr	Tyr	Tyr	Ala	Trp	
			20					25					30			
Tyr	Gln	Gln	Lys	Ser	Pro	Gly	Ser	Ala	Pro	Val	Thr	Val	Ile	His	Ser	
		35					40					45				
Asp	Asp	Lys	Arg	Pro	Ser	Asp	Ile	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Ala	
	50					55					60					
Ser	Gly	Ser	Ala	Ala	Thr	Leu	Ile	Ile	Thr	Gly	Val	Arg	Val	Glu	Asp	
65					70					75					80	
Glu	Ala	Val	Tyr	Tyr	Cys	Gly	Gly	Tyr	Asp	Gly	Arg	Thr	Tyr	Ile	Asn	
			85						90					95		
Thr	Phe	Gly	Ala	Gly	Thr	Thr	Leu	Thr	Val	Leu						
			100					105								

<210>	143
<211>	10
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Synthetic Construct

<400> 143
Gly Phe Ser Phe Ser Asn Phe Ala Met Thr
1 5 10

<210>	144
<211>	15
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Synthetic Construct

<400> 144
Thr Ile Gly Ser Gly Asp Thr Tyr Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

```
<210> 145
<211> 13
<212> PRT
<213> Artificial Sequence
```

$\langle 220 \rangle$

<223> Synthetic Construct

<400> 145

Asp Ser Thr Val Ser Trp Ser Gly Asp Phe Phe Asp Tyr
1 5 10

<210> 146

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 146

Arg Ala Ser Gln Asn Val Lys Asn Asp Leu Ala
1 5 10

<210> 147

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 147

Ala Ala Arg Ile Arg Glu Thr
1 5

<210> 148

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 148

Gln Gln Tyr Tyr Asp Trp Pro Pro Phe Thr
1 5 10

<210> 149

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 149

Gly Phe Ser Phe Ser Ile Tyr Ala Met Ser
1 5 10

<210> 150

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 150

Thr Ile Gly Ala Asp Asp Thr Tyr Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 151
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 151
Asp Ser Thr Val Gly Trp Ser Gly Asp Phe Phe Asp Tyr
1 5 10

<210> 152
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 152
Arg Ala Ser Gln Asn Val Arg Ser Asp Ile Ala
1 5 10

<210> 153
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 153
Ala Ala Ser Ser Arg Asp Thr
1 5

<210> 154

<400> 154
000

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

<220>
<223> Synthetic Construct

<400> 155
Gly Phe Thr Phe Ser Ser Tyr Asp Met Asn
1 5 10

<210> 156
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 156
Leu Ile Ser Gly Ser Gly Glu Ile Ile Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 157
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 157
Glu Asn Asn Arg Tyr Arg Phe Phe Asp Asp
1 5 10

<210> 158
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 158
Arg Ala Ser Gln Ser Val Tyr Thr Tyr Leu Ala
1 5 10

<210> 159
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 159
Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 160
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 160
Gln Gln Tyr Tyr Asp Arg Pro Pro Leu Thr
1 5 10

<210> 161
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 161
Gly Phe Thr Phe Ser Ser Asn Ala
1 5

<210> 162

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

<220>
<223> Synthetic Construct

<400> 162
Ile Ser Ala Gly Gly Ser Asp Thr
1 5

<210> 163
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 163
Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr
1 5 10

<210> 164
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 164
Ser Gly Gly Asp Tyr Tyr Ser Tyr Tyr Tyr Gly
1 5 10

<210> 165
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 165
Thr Val Ile Tyr Ser Asp Asp Lys Arg Pro Ser Asp
1 5 10

<210> 166
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 166
Gly Gly Tyr Asp Tyr Ser Thr Tyr Ala Asn Ala
1 5 10

<210> 167

<400> 167
000

<210> 168

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

<220>
<223> Synthetic Construct

<400> 168
Ile Ser Ser Gly Ser Asp Thr
1 5

<210> 169

<400> 169
000

<210> 170
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 170
Ser Gly Gly Ser Tyr Ser Ser Tyr Tyr Tyr Ala
1 5 10

<210> 171
<211> 12
<212> PRT
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<220>
<223> Synthetic Construct

<400> 171
Thr Leu Ile Tyr Ser Asp Asp Lys Arg Pro Ser Asn
1 5 10

<210> 172
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 172
Gly Gly Tyr Asp Gln Ser Ser Tyr Thr Asn Pro
1 5 10

<210> 173
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 173
Gly Phe Arg Phe Ser Ser Tyr Ala
1 5

<210> 174

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

<220>
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<400> 174
Ile Ser Ser Gly Gly Asp Thr
1 5

<210> 175
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 175
Asn Phe Ala Met Thr
1 5

<210> 176
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 176
Ser Gly Gly Asp Ser Ser Ser His Tyr Tyr Gly
1 5 10

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

<220>
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<400> 177
Thr Val Ile Tyr Ser Asp Asp Glu Arg Pro Ser Asp
1 5 10

<210> 178
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 178
Gly Ala Tyr Asp Gly Ser Thr Tyr Ala Asn Thr
1 5 10

<210> 179
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 179

Gly Phe Thr Phe Ser Ser Tyr Ala
1 5

<210> 180

<400> 180
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<210> 181

<400> 181
000

<210> 182

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 182

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

<210> 183

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 183

Thr Val Ile His Ser Asp Asp Lys Arg Pro Ser Asp
1 5 10

<210> 184

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 184

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

<210> 185

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 6

<223> Xaa = Asn or Ile

<220>

<221> VARIANT
<222> 7
<223> Xaa = Phe or Tyr

<220>
<221> VARIANT
<222> 10
<223> Xaa = Thr or Ser

<400> 185
Gly Phe Ser Phe Ser Xaa Xaa Ala Met Xaa
1 5 10

<210> 186
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 4
<223> Xaa = Ser or Ala

<220>
<221> VARIANT
<222> 5
<223> Xaa = Gly or Asp

<400> 186
Thr Ile Gly Xaa Xaa Asp Thr Tyr Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 187
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 5
<223> Xaa = Ser or Gly

<400> 187
Asp Ser Thr Val Xaa Trp Ser Gly Asp Phe Phe Asp Tyr
1 5 10

<210> 188
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 7
<223> Xaa = Lys or Arg

<220>
<221> VARIANT

<222> 8
 <223> Xaa = Asn or Ser

 <220>
 <221> VARIANT
 <222> 10
 <223> Xaa = Leu or Ile

 <400> 188
 Arg Ala Ser Gln Asn Val Xaa Xaa Asp Xaa Ala
 1 5 10

<210> 189
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Arg or Ser

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Ile or Ser

<220>
 <221> VARIANT
 <222> 6
 <223> Xaa = Glu or Asp

<400> 189
 Ala Ala Xaa Xaa Arg Xaa Thr
 1 5

<210> 190
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 190
 Gly Gly Tyr Asp Tyr Ser Thr Tyr Ala
 1 5

<210> 191
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 191
 Gly Phe Thr Phe Ser Ser Asn
 1 5

<210> 192
 <211> 6
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 192

Ser Ala Gly Gly Ser Asp
1 5

<210> 193

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 193

Glu Thr Trp Asn His Leu Phe Asp Tyr
1 5

<210> 194

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 194

Ser Asn Ala Met Ser
1 5

<210> 195

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 195

Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Pro Ala Ser Val Lys
1 5 10 15
Gly

<210> 196

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 196

Ser Ser Gly Ser Asp
1 5

<210> 197

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 197

Gly Ile Ser Ser Gly Ser Asp Thr Tyr Tyr Gly Asp Ser Val Lys Gly
1 5 10 15

<210> 198

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 198

Gly Phe Arg Phe Ser Ser Tyr
1 5

<210> 199

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 199

Ser Ser Gly Gly Asp
1 5

<210> 200

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 200

Ser Tyr Ala Met Ser
1 5

<210> 201

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 201

Gly Ile Ser Ser Gly Gly Asp Thr Tyr Tyr Val Asp Ser Val Lys Gly
1 5 10 15

<210> 202

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 202

Gly Phe Ser Phe Ser Asn Phe
1 5

<210> 203
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 203
Gly Ser Gly Asp
1

<210> 204
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 204
Asn Phe Ala Val Thr
1 5

<210> 205
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 205
Gly Phe Ser Phe Ser Asn Phe Ala
1 5

<210> 206
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 206
Ile Gly Ser Gly Asp Thr
1 5

<210> 207
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 207
Ala Lys Asp Ser Thr Val Ser Trp Ser Gly Asp Phe Phe Asp Tyr
1 5 10 15

<210> 208
<211> 6
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 208

Gln Asn Val Lys Asn Asp
1 5

<210> 209

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 209

Ala Ala Arg
1

<210> 210

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 210

Gln Gln Tyr Tyr Asp Trp Pro
1 5

<210> 211

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 211

Gly Phe Ser Phe Ser Ile Tyr
1 5

<210> 212

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 212

Gly Ala Asp Asp
1

<210> 213

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 213
Ile Tyr Ala Val Ser
1 5

<210> 214
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 214
Gly Phe Ser Phe Ser Ile Tyr Ala
1 5

<210> 215
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 215
Ile Gly Ala Asp Asp Thr
1 5

<210> 216
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 216
Ala Lys Asp Ser Thr Val Gly Trp Ser Gly Asp Phe Phe Asp Tyr
1 5 10 15

<210> 217
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 217
Gln Asn Val Arg Ser Asp
1 5

<210> 218
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 218
Ala Ala Ser
1

<210> 219
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 219
Gly Phe Thr Phe Ser Ser Tyr
1 5

<210> 220
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 220
Ser Gly Ser Gly Glu Ile
1 5

<210> 221
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 221
Ser Tyr Asp Val Asn
1 5

<210> 222
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 222
Gly Phe Thr Phe Ser Ser Tyr Asp
1 5

<210> 223
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 223
Ile Ser Gly Ser Gly Glu Ile Ile
1 5

<210> 224
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 224
Ala Lys Glu Asn Asn Arg Tyr Arg Phe Phe Asp Asp
1 5 10

<210> 225
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 225
Gln Ser Val Tyr Thr Tyr
1 5

<210> 226
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 226
Gly Ala Ser
1

<210> 227
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 227
Asp Tyr Gly Met Asn
1 5

<210> 228
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 228
Gln Ile Thr Ser Gly Ser Arg Thr Tyr Tyr Gly Ala Ala Val Lys Gly
1 5 10 15

<210> 229
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 229
Asp Phe Gly Ser Gly Val Gly Ser Ile Asp Ala

1 5 10

<210> 230
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 230
Gly Phe Ile Phe Ser Asp Tyr
1 5

<210> 231
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 231
Thr Ser Gly Ser Arg
1 5

<210> 232
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 232
Ser Gly Ser Arg Gly Arg Tyr Gly
1 5

<210> 233
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 233
Arg Asp Asn Gln Arg Pro Ser
1 5

<210> 234
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 234
Gly Ser Tyr Asp Gly Ser Ile Asp Ile
1 5

<210> 235
<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 235
Ser Tyr Ala Met Gly
1 5

<210> 236
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 236
Gly Ile Asp Asp Asp Gly Ser Thr Ala Asn Tyr Gly Pro Ala Val Lys
1 5 10 15
Gly

<210> 237
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 237
Ala Ser Val Thr Gly Trp Ser Ala His Ile Ser Gly Arg Leu Asp Thr
1 5 10 15

<210> 238
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 238
Asp Asp Gly Ser Thr
1 5

<210> 239
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 239
Ser Gly Gly Gly Ile Tyr Tyr Tyr Gly
1 5

<210> 240
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 240
Glu Asn Asp Lys Arg Pro Ser
1 5

<210> 241
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 241
Gly Gly Tyr Asp Ser Asn Thr Thr Ser Gly Ile
1 5 10

<210> 242
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 242
Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
1 5 10 15
Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Ile Phe Ser Asp Tyr
20 25 30
Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45
Ala Gln Ile Thr Ser Gly Ser Arg Thr Tyr Tyr Gly Ala Ala Val Lys
50 55 60
Gly Arg Ala Thr Ile Ser Arg Asp Asn Arg Gln Ser Thr Val Lys Leu
65 70 75 80
Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Ile Tyr Phe Cys Ala
85 90 95
Arg Asp Phe Gly Ser Gly Val Gly Ser Ile Asp Ala Trp Gly Asn Gly
100 105 110
Thr Glu Val Ile Val Ser Ser
115

<210> 243
<211> 102
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 244
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 244
 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
 1 5 10 15
 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Gly Ile Asp Asp Asp Gly Ser Thr Ala Asn Tyr Gly Pro Ala Val
 50 55 60
 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
 65 70 75 80
 Leu Gln Leu Asn Asn Pro Arg Ala Glu Asp Ser Gly Thr Tyr Phe Cys
 85 90 95
 Ala Lys Ala Ser Val Thr Gly Trp Ser Ala His Ile Ser Gly Arg Leu
 100 105 110
 Asp Thr Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
 115 120 125

<210> 245
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 245
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Lys Ile Thr Cys Ser Gly Gly Gly Ile Tyr Tyr Tyr Gly Trp Tyr Gln
 20 25 30
 Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Leu Ile Tyr Glu Asn Asp
 35 40 45
 Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Thr Ser Gly
 50 55 60
 Ser Thr Asn Thr Phe Thr Ile Thr Gly Val Gln Ala Glu Asp Glu Ala
 65 70 75 80
 Val Tyr Tyr Cys Gly Gly Tyr Asp Ser Asn Thr Thr Ser Gly Ile Phe
 85 90 95
 Gly Ala Gly Thr Thr Leu Thr Val Leu
 100 105

<210> 246
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 246
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Asn Phe
 20 25 30
 Ala Val Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Thr Ile Gly Ser Gly Asp Thr Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60
Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
65 70 75 80
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
85 90 95
Asp Ser Thr Val Ser Trp Ser Gly Asp Phe Phe Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 247
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 247
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Ile Tyr
20 25 30
Ala Val Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Thr Ile Gly Ala Asp Asp Thr Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60
Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
65 70 75 80
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
85 90 95
Asp Ser Thr Val Gly Trp Ser Gly Asp Phe Phe Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 248
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 249
<211> 119
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 249

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1      5      10
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20      25      30
Asp Val Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35      40      45
Ser Leu Ile Ser Gly Ser Gly Glu Ile Ile Tyr Tyr Ala 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
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85      90      95
Ala Lys Glu Asn Asn Arg Tyr Arg Phe Phe Asp Asp Trp Gly Gln Gly
100      105      110
Thr Leu Val Thr Val Ser Ser
115
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<210> 250

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 250

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Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1      5      10
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Tyr Thr Tyr
 20      25      30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35      40      45
Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp 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
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Arg Pro Pro
 85      90      95
Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100      105
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<210> 251

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 251

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Glu Thr Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1      5      10
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Tyr Thr Tyr
 20      25      30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35      40      45
Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp 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
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Arg Pro Pro
 85      90      95
Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100      105
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<210> 252
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 253
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 253
 Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
 1 5 10 15
 Lys Val Thr Ile Ser Cys Ser Gly Gly Ser Tyr Ser Ser Tyr Tyr Tyr
 20 25 30
 Ala Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Thr Leu Ile Tyr
 35 40 45
 Ser Asp Asp Lys Arg Pro Ser Asn Ile Pro Asp Arg Phe Ser Gly Ser
 50 55 60
 Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gly Gly Tyr Asp Gln Ser Ser Tyr Thr
 85 90 95
 Asn Pro Phe Gly Thr Gly Thr Lys Val Thr Val Leu
 100 105

<210> 254
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 254
 Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Arg Ile Thr Cys Ser Gly Gly Asp Tyr Tyr Ser Thr Tyr Tyr
 20 25 30
 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val Ile His
 35 40 45
 Ser Asp Asp Lys Arg Pro Ser Asp Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val Gln Ala Glu
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gly Gly Tyr Asp Gly Arg Thr Tyr Ile
 85 90 95
 Asn Thr Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 255
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 255
 Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
 1 5 10 15
 Lys Val Thr Ile Ser Cys Ser Gly Gly Asp Tyr Tyr Ser Thr Tyr Tyr
 20 25 30
 Ala Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Thr Val Ile His
 35 40 45
 Ser Asp Asp Lys Arg Pro Ser Asp Ile Pro Asp Arg Phe Ser Gly Ser
 50 55 60
 Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gly Gly Tyr Asp Gly Arg Thr Tyr Ile
 85 90 95
 Asn Thr Phe Gly Thr Gly Thr Lys Val Thr Val Leu
 100 105

<210> 256
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 256
 Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Ser Tyr
 20 25 30
 Ser Ser Tyr Tyr Tyr Ala Trp Tyr Gln Gln His Pro Gly Lys Ala Pro
 35 40 45
 Lys Thr Leu Ile Tyr Ser Asp Asp Lys Arg Pro Ser Asn Val Ser Asn
 50 55 60
 Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser
 65 70 75 80
 Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Gly Tyr Asp
 85 90 95
 Gln Ser Ser Tyr Thr Asn Pro Phe Gly Gly Gly Thr Lys Leu Thr Val
 100 105 110
 Leu

<210> 257
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 257
 Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
 1 5 10 15
 Lys Val Thr Ile Ser Cys Ser Gly Gly Asp Tyr Tyr Ser Tyr Tyr Tyr

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

<210> 258
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 259
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 260
 <211> 119
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 260

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1      5      10
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20      25      30
Asp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35      40      45
Ser Leu Ile Ser Gly Ser Gly Glu Ile Ile Tyr Tyr Ala 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
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85      90      95
Ala Lys Glu Asn Asn Arg Tyr Arg Phe Phe Asp Asp Trp Gly Gln Gly
100      105      110
Thr Leu Val Thr Val Ser Ser
115
```

<210> 261

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 261

```
Ser Gly Gly Ala Tyr Ser Ser Tyr Tyr Tyr Ala
 1      5      10
```

<210> 262

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 262

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

<210> 263

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 263
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Asn
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Pro Ala 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 Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 264
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 264
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Asn
 20 25 30
 Ala Val Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Pro Ala 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 Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 265
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 265
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Asn
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Gly Ile Ser Ser Gly Ser Asp Thr Tyr Tyr Gly 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 Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser

<210> 266
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 266
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Asn
 20 25 30
 Ala Val Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Gly Ile Ser Ser Gly Ser Asp Thr Tyr Tyr Gly 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 Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 267
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 267
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Arg Phe 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
 Ser Gly Ile Ser Ser Gly Gly Asp Thr Tyr Tyr Val 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 Ala
 85 90 95
 Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 268
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 268
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Arg Phe Ser Ser Tyr
 20 25 30

Ala	Val	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Gly	Ile	Ser	Ser	Gly	Gly	Asp	Thr	Tyr	Tyr	Val	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	Ala
				85					90					95	
Arg	Glu	Thr	Trp	Asn	His	Leu	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser											
		115													

<210> 269
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 269
 Ile Tyr Ala Met Ser
 1 5

<210> 270
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 270
 Ser Tyr Asp Met Asn
 1 5

<210> 271
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 271
 Ser Asn Ala Val Ser
 1 5

<210> 272
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 272
 Ser Tyr Ala Val Ser
 1 5

<210> 273
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 273
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Tyr
20 25 30
Ala Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
35 40 45
Ser Arg Ile Asn Ser Gly Gly Gly Gly Thr Asp Tyr Ala Glu Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Glu 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 Lys Gln Tyr Asp Trp Asn Ser Phe Phe Asp Tyr Trp Gly Leu Gly
100 105 110
Ala Leu Val Thr Val Ser Ser
115

<210> 274
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 274
Glu Thr Val Leu 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 Gln Thr Val Gly Ser Lys
20 25 30
Leu Ala Trp His Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Asp Ala Thr Asn Arg Ala Thr Gly Ile Ser Asp Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Thr
65 70 75 80
Glu Asp Ser Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Tyr Trp Pro Pro
85 90 95
Tyr Arg Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 275
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 276
 <211> 103
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 277

<400> 277
 000

<210> 278
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 278
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Asp His
 20 25 30
 Asp Met Ser Trp Val Arg Gln Gly Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45
 Ala Gly Ile Ser Leu Arg Gly Gly Val Thr Trp Tyr Ala 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 Arg Leu Phe Ser Leu Arg Thr Glu Asp Thr Ala Ile Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Ser Trp Asn Thr Phe Phe Asp Tyr Trp Gly Leu Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 279
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 279
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Thr Ala Thr Leu Ser Cys Arg Ala Ser Gln Asn Val Arg 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 Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Asn Gly Pro Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 280
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 280
 Asp Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Lys Ala Ser Gly Phe Thr Phe Thr Asn Phe
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Ser Gly Ser Asp Asp Thr Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Glu Ser 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 Lys Asp Ser Thr Val Ser Trp Asn Thr Phe Phe Asp Tyr Trp Gly
 100 105 110
 Leu Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 281
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 281
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Leu Gly Gly Thr Val
 1 5 10 15
 Lys Ile Thr Cys Ser Gly Gly Tyr Gly Ser Asp Asp Gly Ser Ser Ser
 20 25 30
 Tyr Tyr Gly Trp Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Ile
 35 40 45
 Leu Ile Tyr Trp Asp Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe
 50 55 60
 Ser Gly Ser Thr Ser Gly Ser Thr Thr Thr Leu Thr Ile Thr Gly Val
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Val Tyr Phe Cys Gly Thr Tyr Asp Thr Ser
 85 90 95
 Ser Gly Ala Ile Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
 100 105 110

<210> 282

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

<220>
 <223> Synthetic Construct

<400> 282
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Arg Ser Tyr
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45
 Ser Arg Ile Asn Ser Gly Gly Gly Thr Asp Tyr Ala 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 Lys Gln Tyr Asp Trp Asn Ser Phe Phe Asp Tyr Trp Gly Leu Gly
 100 105 110
 Ala Leu Val Thr Val Ser Ser
 115

<210> 283
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 283
 Glu Thr Val Leu 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 Gln Thr Val Gly Ser Lys
 20 25 30
 Leu Ala Trp His Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Pro Gln Thr
 65 70 75 80
 Glu Asp Ser Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Tyr Trp Pro Pro
 85 90 95
 Tyr Arg Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 284
 <211> 114
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 284
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Thr Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Thr Ser Ser
 20 25 30
 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Asp Trp Val
 35 40 45
 Ser Ser Ile Ser Thr Ser Gly Val Ile Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Arg Leu Phe Ser Leu Arg Ala Asp Asp Thr Ala Ile Tyr Tyr Cys
 85 90 95
 Ala Thr Asp Thr Phe Asp His Trp Gly Pro Gly Thr Leu Val Thr Val
 100 105 110
 Ser Ser

<210> 285
 <211> 102
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 285
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Lys Ile Thr Cys Phe Gly Ser Ser Gly Asn Tyr Gly Trp Phe Gln Gln
 20 25 30
 Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile His Tyr Asn Asn Lys
 35 40 45
 Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Ser
 50 55 60
 Thr Gly Thr Leu Thr Ile Thr Gly Val Arg Ala Glu Asp Glu Ala Val
 65 70 75 80
 Tyr Phe Cys Gly Ala Trp Glu Thr Gly Ser Ala Thr Phe Gly Ala Gly
 85 90 95
 Thr Thr Leu Thr Val Leu
 100

<210> 286
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 286
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Phe
 20 25 30
 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45
 Ser Leu Ile Ser Val Thr Ala Thr Thr Tyr Tyr Ala 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 Ala
 85 90 95
 Lys Val Thr Trp Asn Asn Leu Phe Asp Tyr Trp Gly Leu Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 287
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 287
 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	Gln	Pro	Ile	Asp	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	Asn	Thr	Val	Thr	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Asn	Arg	Leu	Glu	Pro
65					70					75					80
Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	His	Gln	Tyr	Asp	Trp	Pro	Pro
				85					90					95	
Tyr	Ile	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys				
			100					105							

<210> 288
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 288															
Asp	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Phe
			20					25					30		
Ala	Met	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Pro	Glu	Trp	Val
		35				40						45			
Ser	Leu	Val	Ser	Val	Thr	Ala	Thr	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
			85						90					95	
Lys	Ile	Thr	Trp	Asn	Asn	Leu	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser											
			115												

<210> 289
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 289															
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	Gln	Thr	Val	Gly	Ser	Lys
			20					25					30		
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35					40					45			
Tyr	Asp	Ser	Ser	Ser	Arg	Ala	Ser	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ser
65					70					75					80
Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	His	Asn	Asp	Trp	Pro	Pro
				85					90					95	
Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys				
			100					105							

<210> 290
 <211> 117
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 290

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

<210> 291

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 291

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

<210> 292

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 292

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

Lys Val Thr Trp Asn Asn Phe Phe Asp Tyr Trp Gly Leu Gly Thr Leu
100 110
Val Thr Val Ser Ser
115

<210> 293
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 294
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 294
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Arg Phe 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
Ser Gly Ile Ser Ser Gly Gly Asp Thr Tyr Tyr Val 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 Val Asn Ser Leu Thr Ala Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95
Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 295
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 295
Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Leu Gly Glu Thr Val
1 5 10 15
Lys Ile Thr Cys Ser Gly Gly Asp Ser Ser Ser His Tyr Tyr Gly Trp

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

<210> 296
 <211> 127
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 297
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1
 <223> Xaa = Ser or Thr

<220>
 <221> VARIANT
 <222> 2
 <223> Xaa = Asn or Tyr or His or Asp

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Met or Leu or Val

<400> 297
 Xaa Xaa Ala Xaa Ser
 1 5

<210> 298
 <211> 17

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Ala or Ser

 <220>
 <221> VARIANT
 <222> 5
 <223> Xaa = Gly or Ser or absent

 <220>
 <221> VARIANT
 <222> 6
 <223> Xaa = Ser or Asp or Gly

 <220>
 <221> VARIANT
 <222> 7
 <223> Xaa = Gly or Ser

 <220>
 <221> VARIANT
 <222> 8
 <223> Xaa = Asp or Ser or Gly

 <220>
 <221> VARIANT
 <222> 9
 <223> Xaa = Thr or Ala

 <220>
 <221> VARIANT
 <222> 12
 <223> Xaa = Pro or Gly or Val or Ile or Ala or Ser

 <220>
 <221> VARIANT
 <222> 13
 <223> Xaa = Ala or Asp or Gly

 <220>
 <221> VARIANT
 <222> 15
 <223> Xaa = Val or Met

 <400> 298
 Gly Ile Ser Xaa Xaa Xaa Xaa Xaa Tyr Tyr Xaa Xaa Ser Xaa Lys
 1 5 10 15
 Gly

 <210> 299
 <211> 11
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Asp or Gly or Ser or Ile or absent

<220>
<221> VARIANT
<222> 5
<223> Xaa = Ser or Trp or Gly or Tyr or Asp

<220>
<221> VARIANT
<222> 6
<223> Xaa = Ser or Tyr or Thr or Asp

<220>
<221> VARIANT
<222> 8
<223> Xaa = His or Thr or Ser or Tyr

<220>
<221> VARIANT
<222> 11
<223> Xaa = Gly or Ala

<400> 299
Ser Gly Gly Xaa Xaa Xaa Ser Xaa Tyr Tyr Xaa
1 5 10

<210> 300
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 3
<223> Xaa = Asp or Asn

<220>
<221> VARIANT
<222> 4
<223> Xaa = Glu or Lys or Gln

<220>
<221> VARIANT
<222> 7
<223> Xaa = Ser or Pro

<400> 300
Ser Asp Xaa Xaa Arg Pro Xaa
1 5

<210> 301
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Xaa = Gly or Ala

<220>
<221> VARIANT
<222> 2
<223> Xaa = Gly or Ala

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = Gly or Tyr or Gln or Ser or Ala

<220>
 <221> VARIANT
 <222> 6
 <223> Xaa = Ser or Arg or Thr

<220>
 <221> VARIANT
 <222> 7
 <223> Xaa = Thr or Ser

<220>
 <221> VARIANT
 <222> 9
 <223> Xaa = Ala or Ile or Val or Leu or Thr

<220>
 <221> VARIANT
 <222> 11
 <223> Xaa = Thr or Ala or Asp or Pro

<400> 301
 Xaa Xaa Tyr Asp Xaa Xaa Xaa Tyr Xaa Asn Xaa
 1 5 10

<210> 302
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 2
 <223> Xaa = Asn or Tyr

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Met or Leu or Val

<400> 302
 Ser Xaa Ala Xaa Ser
 1 5

<210> 303
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Ala or Ser

<220>
 <221> VARIANT
 <222> 6

<223> Xaa = Gly or absent

<220>

<221> VARIANT

<222> 7

<223> Xaa = Ser or Gly

<220>

<221> VARIANT

<222> 12

<223> Xaa = Pro or Gly or Val

<220>

<221> VARIANT

<222> 13

<223> Xaa = Ala or Asp

<400> 303

Gly Ile Ser Xaa Gly Xaa Xaa Asp Thr Tyr Tyr Xaa Xaa Ser Val Lys
1 5 10 15
Gly

<210> 304

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 4

<223> Xaa = Ser or Ala

<400> 304

Ser Gly Gly Xaa Tyr Ser Ser Tyr Tyr Tyr Ala
1 5 10

<210> 305

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 305

Asn Phe Ala Leu Thr
1 5

<210> 306

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 306

Ile Tyr Ala Leu Ser
1 5

<210> 307

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = Ser or Thr

<220>

<221> VARIANT

<222> 2

<223> Xaa = Tyr or Ser

<220>

<221> VARIANT

<222> 4

<223> Xaa = Met or Leu or Val

<400> 307

Xaa Xaa Asp Xaa Asn
1 5

<210> 308

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 9

<223> Xaa = Ile or Thr

<400> 308

Leu Ile Ser Gly Ser Gly Glu Ile Xaa Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 309

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 2

<223> Xaa = Asn or Asp

<220>

<221> VARIANT

<222> 3

<223> Xaa = Asn or Asp

<220>

<221> VARIANT

<222> 4

<223> Xaa = Arg or Met

<220>

<221> VARIANT

<222> 10
 <223> Xaa = Asp or Tyr

 <400> 309
 Glu Xaa Xaa Xaa Tyr Arg Phe Phe Asp Xaa
 1 5 10

 <210> 310
 <211> 11
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Ser or Asp

 <220>
 <221> VARIANT
 <222> 8
 <223> Xaa = Thr or Ser

 <400> 310
 Arg Ala Xaa Gln Ser Val Tyr Xaa Tyr Leu Ala
 1 5 10

 <210> 311
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <220>
 <221> VARIANT
 <222> 1
 <223> Xaa = Gly or Ala or Asp

 <220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Ser or Arg

 <220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Ser or Asn or Thr

 <220>
 <221> VARIANT
 <222> 7
 <223> Xaa = Thr or Ala

 <400> 311
 Xaa Ala Xaa Xaa Arg Ala Xaa
 1 5

 <210> 312
 <211> 108
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> Synthetic Construct

<400> 312

```
Glu Ile Val Leu 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 Gln Asn Val Lys Asn Asp
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 Arg Ile Arg Glu Thr 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 Gln Tyr Tyr Asp Trp Pro Pro
85      90      95
Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100      105
```

<210> 313

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 313

```
Ser Tyr Asp Leu Asn
1      5
```

<210> 314

<211> 22

<212> PRT

<213> Homo sapiens

<400> 314

```
Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1      5      10      15
Thr Ala Arg Ile Thr Cys
20
```

<210> 315

<211> 15

<212> PRT

<213> Homo sapiens

<400> 315

```
Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Leu Ile Tyr
1      5      10      15
```

<210> 316

<211> 32

<212> PRT

<213> Homo sapiens

<400> 316

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

<210> 317

<211> 10

<212> PRT

<213> Homo sapiens

<400> 317
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
1 5 10

<210> 318
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 318
Ser Asn Ala Leu Ser
1 5

<210> 319
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 319
Ser Tyr Ala Leu Ser
1 5

<210> 320
<211> 330
<212> PRT
<213> Homo sapiens

<400> 320
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15
Ser Thr Ser Gly Gly 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 Ser Leu Gly Thr Gln Thr
65 70 75 80
Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95
Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110
Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125
Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140
Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160
Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175
Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190
His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205
Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220
Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225 230 235 240
Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255
Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn

Asn	Tyr	Lys	260	Thr	Thr	Pro	Pro	Val	265	Leu	Asp	Ser	Asp	Gly	270	Ser	Phe	Phe
		275						280						285				
Leu	Tyr	Ser	Lys	Leu	Thr	Val	295	Asp	Lys	Ser	Arg	Trp	300	Gln	Gln	Gly	Asn	
	290																	
Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	315	Asn	His	Tyr	Thr	320	
305					310													
Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys	330								
				325														

<210> 321

<211> 330

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 321

Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys			
1				5					10					15				
Ser	Thr	Ser	Gly	Gly	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	Ser	Leu	Gly	Thr	Gln	Thr			
65					70				75						80			
Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys			
			85						90					95				
Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys			
			100					105					110					
Pro	Ala	Pro	Glu	Ala	Ala	Gly	Ala	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro			
		115					120					125						
Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys			
	130					135					140							
Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp			
145					150					155					160			
Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu			
			165						170					175				
Glu	Gln	Tyr	Ala	Ser	Thr	Tyr	Arg	Val	Ser	Val	Leu	Thr	Val	Leu				
			180					185					190					
His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn			
		195					200					205						
Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly			
	210					215					220							
Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu			
	225				230					235					240			
Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr			
			245						250					255				
Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn			
			260					265					270					
Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe			
		275					280					285						
Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn			
	290					295					300							
Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr			
305					310					315					320			
Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys	330								
				325														

<210> 322

<211> 326

<212> PRT

<213> Homo sapiens

<400> 322

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	Ala	Pro
			100					105					110		
Pro	Val	Ala	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
		115					120					125			
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp
	130					135					140				
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly
145					150					155					160
Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn
				165					170					175	
Ser	Thr	Phe	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Val	His	Gln	Asp	Trp
			180					185					190		
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro
		195					200					205			
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Thr	Lys	Gly	Gln	Pro	Arg	Glu
	210					215					220				
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn
225					230					235					240
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
				245					250					255	
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
			260					265					270		
Thr	Pro	Pro	Met	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
		275					280					285			
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
	290					295					300				
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
305					310					315					320
Ser	Leu	Ser	Pro	Gly	Lys										
				325											

<210> 323
 <211> 326
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 323

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	Ala	Pro
			100					105					110		
Pro	Val	Ala	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
		115					120					125			
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp

130	Val	Ser	His	Glu	Asp	Pro	135	Glu	Val	Gln	Phe	Asn	140	Trp	Tyr	Val	Asp	Gly
145	Val	Glu	Val	His	Asn	150	Ala	Lys	Thr	Lys	Pro	155	Glu	Glu	Gln	Phe	Asn	
	Ser	Thr	Phe	Arg	Val	165	Val	Ser	Val	Leu	Thr	170	Val	Val	His	Gln	Asp	Trp
	Leu	Asn	Gly	Lys	Glu	180	Tyr	Lys	Cys	Lys	Val	185	Ser	Asn	Lys	Gly	Leu	Pro
	Ser	Ser	Ile	Glu	Lys	195	Thr	Ile	Ser	Lys	Thr	200	Lys	Gly	Gln	Pro	Arg	Glu
	Pro	Gln	Val	Tyr	Thr	210	Leu	Pro	Pro	Ser	Arg	215	Glu	Glu	Met	Thr	Lys	Asn
225	Gln	Val	Ser	Leu	Thr	230	Cys	Leu	Val	Lys	Gly	235	Phe	Tyr	Pro	Ser	Asp	Ile
	Ala	Val	Glu	Trp	Glu	245	Ser	Asn	Gly	Gln	Pro	250	Glu	Asn	Asn	Tyr	Lys	Thr
	Thr	Pro	Pro	Met	Leu	260	Asp	Ser	Asp	Gly	Ser	265	Phe	Phe	Leu	Tyr	Ser	Lys
	Leu	Thr	Val	Asp	Lys	275	Ser	Arg	Trp	Gln	Gln	280	Gly	Asn	Val	Phe	Ser	Cys
	Ser	Val	Met	His	Glu	290	Ala	Leu	His	Asn	His	295	Tyr	Thr	Gln	Lys	Ser	Leu
305	Ser	Leu	Ser	Pro	Gly	310	Lys					315						
						325												

<210> 324

<211> 327

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 324

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	Ser	Leu	Gly	Thr	Lys	Thr
65					70				75						80
Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
			85					90						95	
Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro
			100					105					110		
Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
		115					120					125			
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
	130					135					140				
Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp
145					150					155					160
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe
				165					170					175	
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
		180						185					190		
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu
		195					200					205			
Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
	210					215					220				
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys
225					230					235					240
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
				245					250					255	
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
			260					265					270		

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285
Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300
Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320
Leu Ser Leu Ser Leu Gly Lys
325

<210> 325
<211> 107
<212> PRT
<213> Homo sapiens

<400> 325
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
20 25 30
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 326
<211> 106
<212> PRT
<213> Homo sapiens

<400> 326
Gly Gln Pro Lys Ala Asn Pro Thr Val Thr Leu Phe Pro Pro Ser Ser
1 5 10 15
Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30
Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
35 40 45
Val Lys Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
50 55 60
Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80
Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95
Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 327
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 327
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Asn Phe
20 25 30
Ala Leu Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Thr Ile Gly Ser Gly Asp Thr Tyr Tyr Ala Asp Ser Val Lys Gly

50	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln
65	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys
	Asp	Ser	Thr	Val	Ser	Trp	Ser	Gly	Asp	Phe	Phe	Asp	Tyr	Trp	Gly	Gln
	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
			115					120						110		

<210> 328
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 328	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Gly
1	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Ile	Tyr
	Ala	Leu	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
	Ser	Thr	Ile	Gly	Ala	Asp	Asp	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
65	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys
	Asp	Ser	Thr	Val	Gly	Trp	Ser	Gly	Asp	Phe	Phe	Asp	Tyr	Trp	Gly	Gln
	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
			115					120						110		

<210> 329
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 329	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
	Asp	Leu	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
	Ser	Leu	Ile	Ser	Gly	Ser	Gly	Glu	Ile	Ile	Tyr	Tyr	Ala	Asp	Ser	Val
	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
	Ala	Lys	Glu	Asn	Asn	Arg	Tyr	Arg	Phe	Phe	Asp	Asp	Trp	Gly	Gln	Gly
	Thr	Leu	Val	Thr	Val	Ser	Ser									
			115											110		

<210> 330
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 330
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Asn
 20 25 30
 Ala Leu Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Pro Ala 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 Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 331
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 331
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Asn
 20 25 30
 Ala Leu Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Gly Ile Ser Ser Gly Ser Asp Thr Tyr Tyr Gly 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 Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 332
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 332
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Arg Phe Ser Ser Tyr
 20 25 30
 Ala Leu Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Ser Ser Gly Gly Asp Thr Tyr Tyr Val 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 Ala
 85 90 95

Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 333
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 334
<211> 103
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 335
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 335
Asp Val Gln Leu Leu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Asn Phe
20 25 30
Ala Met Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val

<220>
<223> Synthetic Construct

<400> 340
Gly Asp Tyr Tyr Ser
1 5

<210> 341
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 341
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Ile Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
35 40 45
Ser Thr Ile Gly Ala Asp Asp Thr Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60
Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
65 70 75 80
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
85 90 95
Asp Ser Thr Val Gly Trp Ser Gly Asp Phe Phe Asp Tyr Trp Gly Leu
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 342
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 342
Asp Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Arg Pro Gly Glu
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45
Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Ile Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Glu Asn Ser Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
115

<210> 343
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 344
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 344
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45
Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Ile Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Arg Gln Phe Gln Glu Gln Ser Leu
65 70 75 80
Ser Pro Asn Glu Pro Ala Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 345
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 346

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

<220>
 <223> Synthetic Construct

<400> 346
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser His
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Ile Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Ser Ser Leu Tyr
 65 70 75 80
 Leu Arg Met Asn Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 347
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 348
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 352
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	352																		
Asp	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu				
1				5					10					15					
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Ser	Asn				
			20					25					30						
Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val				
		35				40						45							
Ala	Gly	Ile	Ser	Ala	Ser	Gly	Asp	Thr	Tyr	Tyr	Ser	Gly	Ser	Met	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	Thr	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala				
			85					90						95					
Arg	Glu	Thr	Trp	Asn	His	Leu	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Thr	Leu				
			100					105					110						
Val	Thr	Val	Ser	Ser															
			115																

<210> 353
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400>	353																		
Ala	Leu	Thr	Gln	Pro	Ala	Ser	Val	Ser	Ala	Asn	Pro	Gly	Glu	Thr	Val				
1				5					10					15					
Lys	Ile	Thr	Cys	Ser	Gly	Gly	Ser	Asp	Ser	Tyr	Tyr	Tyr	Gly	Trp	His				
			20					25					30						
Gln	Gln	Lys	Ser	Pro	Gly	Ser	Ala	Pro	Val	Thr	Val	Ile	Tyr	Ser	Asp				
		35				40						45							
Asp	Gln	Arg	Pro	Pro	Asp	Ile	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Ala	Ser				
		50			55				60										
Gly	Ser	Thr	Thr	Thr	Leu	Thr	Ile	Thr	Gly	Val	Arg	Ala	Glu	Asp	Glu				
65				70					75					80					
Ala	Val	Tyr	Tyr	Cys	Gly	Gly	Tyr	Asp	Tyr	Ser	Thr	Tyr	Thr	Asn	Thr				
			85					90						95					
Phe	Gly	Ala	Gly	Thr	Thr	Leu	Thr	Val	Leu										
			100					105											

<210> 354
 <211> 117
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 354

```
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Arg Phe 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
Ser Gly Ile Ser Ser Asp Ser Asp Ala Tyr Tyr Val 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 Val Asn Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85      90      95
Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr Met
100      105      110
Val Thr Val Ser Ser
115
```

<210> 355

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 355

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

<210> 356

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 356

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

Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 357
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 357
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Ser Pro Gly Glu Thr Val
 1 5 10 15
 Glu Ile Thr Cys Ser Gly Gly Ser Asp Ser Ser Tyr Tyr Tyr Gly Trp
 20 25 30
 Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Ser
 35 40 45
 Asp Asn Lys Arg Pro Ser Asn Ile Pro Ser Arg Phe Ser Gly Ser Ala
 50 55 60
 Ser Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Arg Val Glu Asp
 65 70 75 80
 Glu Ala Val Tyr Tyr Cys Gly Gly Tyr Asp Tyr Ser Thr Tyr Thr Asn
 85 90 95
 Pro Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
 100 105

<210> 358
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 358
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Arg Phe 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
 Ser Gly Ile Ser Ser Gly Gly Asp Thr Tyr Tyr Val 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 Val Asn Ser Leu Thr Ala Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
 85 90 95
 Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 359
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 359
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Leu Gly Glu Thr Val
 1 5 10 15
 Glu Ile Thr Cys Ser Gly Gly Asp Ser Ser Ser His Tyr Tyr Gly Trp

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

<210> 360
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 361
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 362
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 362
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Arg Phe Ser Ser His
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Ser Ser Gly Gly Asp Thr Tyr Tyr Val 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 Val Asn Ser Leu Thr Ala Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
 85 90 95
 Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 363
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 364
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 364
 Asp Val Gln Leu Val Asp Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Ile Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
115

<210> 365
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 365
Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
1 5 10 15
Lys Ile Thr Cys Ser Gly Gly Asp Tyr Tyr Ser Thr Tyr Tyr Gly Trp
20 25 30
Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile His Ser
35 40 45
Asp Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Ala
50 55 60
Ser Gly Ser Ala Ala Thr Leu Thr Ile Thr Gly Val Arg Val Glu Asp
65 70 75 80
Glu Ala Val Tyr Phe Cys Gly Ala Tyr Asp Gly Arg Thr Tyr Ile Asn
85 90 95
Thr Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
100 105

<210> 366
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 366
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45
Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Ile Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
115

<210> 367
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 367
Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
1 5 10 15
Lys Ile Thr Cys Ser Gly Gly Asp Tyr Tyr Ser Thr Tyr Tyr Gly Trp
20 25 30
Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile His Ser

<400> 370
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Ala Gly Ile Ser Ala Gly Gly Ser Asp Ala Tyr Tyr Ile Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 371
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 371
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Lys Ile Thr Cys Ser Gly Gly Asp Trp Tyr Ser Thr Tyr Tyr Gly Trp
 20 25 30
 Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile His Ser
 35 40 45
 Asp Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Ala
 50 55 60
 Ser Gly Ser Ala Ala Thr Leu Thr Ile Thr Gly Val Arg Val Glu Asp
 65 70 75 80
 Glu Ala Val Tyr Tyr Cys Ala Gly Tyr Asp Gly Arg Thr Tyr Ile Asn
 85 90 95
 Thr Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
 100 105

<210> 372
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 372
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Ile Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 373
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 373
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Lys Ile Thr Cys Ser Gly Gly Gly Tyr Ser Thr Tyr Tyr Gly Trp
 20 25 30
 Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile His Ser
 35 40 45
 Asp Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Ala
 50 55 60
 Ser Gly Ser Ala Ala Thr Leu Thr Ile Thr Gly Val Arg Val Glu Asp
 65 70 75 80
 Glu Ala Val Tyr Tyr Cys Ala Gly Tyr Asp Ala Arg Thr Tyr Ile Asn
 85 90 95
 Thr Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
 100 105

<210> 374
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 374
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Phe Thr Phe Ser Ser Asn
 20 25 30
 Ala Met Ser Trp Ala Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Gly Ile Ser Ser Gly Ser Asp Thr Tyr Tyr Gly Asp Ser Val Lys
 50 55 60
 Gly Arg Leu Thr Ile Ser Arg Asp Asn Ser Lys Asn Ile Leu Tyr Leu
 65 70 75 80
 Gln Met Asn Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 375
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 375
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Lys Ile Thr Cys Ser Gly Gly Ile Tyr Ser Ser Tyr Tyr Tyr Ala Trp
 20 25 30
 Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Leu Ile Tyr Ser
 35 40 45
 Asp Asp Lys Arg Pro Ser Asn Ile Pro Ser Arg Phe Ser Gly Ser Ala

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

<210> 376
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 376															
Asp	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Asn
			20					25					30		
Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Leu
		35				40						45			
Ala	Gly	Ile	Ser	Ala	Gly	Asp	Ser	Asp	Thr	Tyr	Tyr	Pro	Ala	Ser	Val
	50				55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Pro	Lys	Asn	Thr	Leu	Tyr
65				70					75					80	
Leu	Gln	Met	Asn	Thr	Leu	Thr	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Arg	Glu	Thr	Trp	Asn	His	Leu	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Thr
			100				105					110			
Leu	Val	Thr	Val	Ser	Ser										
			115												

<210> 377
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 377															
Ala	Leu	Thr	Gln	Pro	Ala	Ser	Val	Ser	Ala	Asn	Pro	Gly	Glu	Thr	Val
1				5					10					15	
Lys	Ile	Ala	Cys	Ser	Gly	Gly	Ser	Tyr	Tyr	Ser	Tyr	Tyr	Tyr	Gly	Trp
			20				25						30		
Tyr	Gln	Gln	Lys	Ser	Pro	Gly	Ser	Ala	Leu	Val	Thr	Val	Ile	Tyr	Ser
		35				40						45			
Asp	Asp	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Ala
	50				55					60					
Ser	Gly	Ser	Thr	Ala	Thr	Leu	Thr	Ile	Thr	Gly	Val	Arg	Ala	Glu	Asp
65				70					75					80	
Glu	Ala	Val	Tyr	Tyr	Cys	Gly	Gly	Tyr	Asp	Tyr	Ser	Ser	Tyr	Thr	Asn
			85					90					95		
Asp	Phe	Gly	Ala	Gly	Thr	Thr	Leu	Thr	Val	Leu					
			100				105								

<210> 378
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 378

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

<210> 379

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 379

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

<210> 380

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 380

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

<210> 381
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 381
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Lys Ile Thr Cys Ser Gly Gly Gly Thr Ser Ser Tyr Tyr Gly Trp Tyr
 20 25 30
 Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Leu Ile His Ser Asp
 35 40 45
 Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Ala Ser
 50 55 60
 Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Val Glu Asp Glu
 65 70 75 80
 Ala Val Tyr Tyr Cys Gly Gly Tyr Asp Tyr Thr Thr Tyr Val Asn Thr
 85 90 95
 Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
 100 105

<210> 382
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 382
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Ala Gly Ile Ser Ala Gly Gly Ser Asp Thr Tyr Tyr Ile Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 383
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 383
 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val
 1 5 10 15
 Lys Ile Thr Cys Ser Gly Gly Gly Tyr Tyr Ser Thr Tyr Tyr Gly Trp
 20 25 30
 Tyr Gln Gln Arg Ser Pro Gly Ser Ala Pro Val Thr Val Ile His Ser
 35 40 45
 Asp Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Ala
 50 55 60
 Ser Gly Ser Ala Ala Thr Leu Thr Ile Thr Gly Val Arg Val Glu Asp

65 70 75 80
 Glu Ala Val Tyr Tyr Cys Ala Gly Tyr Asp Gly Arg Thr Tyr Leu Asn
 85 90 95
 Thr Phe Gly Ala Gly Thr Thr Leu Thr Val Leu
 100 105

<210> 384
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 384
 Asp Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Arg Pro Gly Glu
 1 5 10 15
 Thr Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe 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
 Ser Gly Ile Ser Ala Ser Gly Ser Asp Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Ser Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Arg Met Ser Ser Leu Thr Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Thr Trp Asn His Leu Phe Asp Tyr Trp Gly Leu Gly Thr
 100 105 110
 Leu Val Thr Leu Ser Ser
 115

<210> 385
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 386
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 386
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Ser
 20 25 30
 Asp Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45
 Ser Leu Ile Ser Gly Ser Gly Glu Ile Thr Tyr Tyr Ala 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 Lys Glu Asn Asp Arg Tyr Arg Phe Phe Asp Tyr Trp Gly Leu Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 387
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 388
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 388
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Asp Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45
 Ser Leu Ile Ser Gly Ser Gly Glu Ile Ile Tyr Tyr Ala 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 Lys Glu Asn Asn Arg Tyr Arg Phe Phe Asp Tyr Trp Gly Leu Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 389
 <211> 108

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 389
 Lys Thr Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Thr Cys Arg Ala Asp Gln Ser Val Tyr Thr Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Glu Arg Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp 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 Gln Tyr Tyr Asp Arg Pro Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 390
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 390
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Asp Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45
 Ser Leu Ile Ser Gly Ser Gly Glu Ile Ile Tyr Tyr Ala 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 Lys Glu Asn Asn Arg Tyr Arg Phe Phe Asp Tyr Trp Gly Leu Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 391
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 391
 Glu Thr Val Leu Thr Gln Ser Pro Gly Thr Leu Thr Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Tyr Thr Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Glu Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Ser Arg Ala Thr Gly Val Pro Asp 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 Gln Tyr Tyr Asp Arg Pro Pro

Leu Thr Phe Gly⁸⁵ Gly Gly Thr Lys Val⁹⁰ Glu Ile Lys 95
100 105

<210> 392
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 392
Asp Val Gln Leu Val⁵ Glu Ser Gly Gly¹⁰ Val Val Arg Pro Gly¹⁵ Glu
1 Ser Leu Arg Leu²⁰ Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
25 Ser Met Asn³⁵ Trp Val Arg Gln Ala⁴⁰ Pro Gly Glu Gly Leu⁴⁵ Glu Trp Val
50 Ser Leu Ile Ser Gly Ser Gly⁵⁵ Glu Ile Ile Tyr Tyr⁶⁰ Ala Asp Ser Val
65 Lys Gly Arg Phe Thr⁷⁰ Ile Ser Arg Asp Asn Ser⁷⁵ Lys Asn Thr Leu Tyr
80 Leu Gln Met Asn⁸⁵ Ser Leu Arg Ala Glu Asp⁹⁰ Thr Ala Val Tyr Tyr Cys
95 Ala Lys Glu Asn¹⁰⁰ Asp Arg Tyr Arg Phe¹⁰⁵ Phe Asp Tyr Trp Gly¹¹⁰ Leu Gly
115 Thr Leu Val Thr Val Ser Ser

<210> 393
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 393
Glu Thr Val Leu Thr⁵ Gln Ser Pro Gly Thr¹⁰ Leu Thr Leu Ser Pro Gly¹⁵
1 Glu Arg Ala Thr²⁰ Leu Thr Cys Arg Ala²⁵ Ser Gln Ser Val Tyr Thr Tyr
30 Leu Ala Trp Tyr Gln Glu Lys Pro Gly Gln Ala Pro Arg⁴⁵ Leu Leu Ile
50 Tyr Gly Ala Ser Ser Arg Ala⁵⁵ Thr Gly Ile Pro Asp Arg Phe Ser Gly
60 Ser Gly Ser Gly Thr⁷⁰ Glu Phe Thr Leu Thr Ile⁷⁵ Ser Ser Leu Gln Ser
80 Glu Asp Phe Ala⁸⁵ Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Arg Pro Pro
95 Leu Thr Phe Gly¹⁰⁰ Gly Gly Thr Lys Val¹⁰⁵ Glu Ile Lys

<210> 394
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 394
Asp Val Gln Leu Val⁵ Glu Ser Gly Gly¹⁰ Val Val Arg Pro Gly¹⁵ Glu
1 Ser Leu Arg Leu²⁰ Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
25 30

Asp	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Leu	Ile	Ser	Gly	Ser	Gly	Glu	Ile	Ile	Tyr	Tyr	Ala	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	Lys	Glu	Asn	Asn	Arg	Tyr	Arg	Phe	Phe	Asp	Tyr	Trp	Gly	Leu	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Ser	Ser									
		115													

<210> 395
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<220>
 <223> Synthetic Construct

Asp	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Arg	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
			20					25					30		
Asp	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Glu	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Leu	Ile	Ser	Gly	Ser	Gly	Glu	Ile	Ile	Tyr	Tyr	Ala	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	Lys	Glu	Asn	Asn	Arg	Tyr	Arg	Phe	Phe	Asp	Asp	Trp	Gly	Leu	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Ser	Ser									
		115													

<210> 397
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 398
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 398
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser
20 25 30
Asp Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
35 40 45
Ser Leu Ile Ser Gly Ser Gly Glu Ile Thr Tyr Tyr Ala 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 Ile Tyr Tyr Cys
85 90 95
Ala Lys Glu Asn Asn Met Tyr Arg Phe Asp Tyr Trp Gly Leu Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

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

<220>
<223> Synthetic Construct

<400> 399
Glu Thr 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 Gln Ser Val Tyr Thr Tyr
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Arg Leu Leu Ile
35 40 45
His Ala Ala Arg Asn Arg Ala Ala Gly Ile Pro Asp 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 Gln Tyr Tyr Asp Arg Pro Pro
85 90 95
Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys

<210> 400
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 400
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Asp Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45
 Ser Leu Ile Ser Gly Ser Gly Glu Ile Ile Tyr Tyr Ala 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 Lys Glu Asp Asn Arg Tyr Arg Phe Phe Asp Tyr Trp Gly Leu Gly
 100 105 110
 Ala Leu Val Thr Val Ser Ser
 115

<210> 401
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 401
 Glu Thr Val Leu Thr Gln Ser Pro Gly Thr Leu Thr Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Thr Thr Leu Thr Cys Arg Ala Ser Gln Ser Val Tyr Thr Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Glu Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp 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 Gln Tyr Tyr Asp Arg Pro Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

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

<220>
 <223> Synthetic Construct

<400> 402
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Asp Met Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45

Ser Leu Ile Ser Gly Ser Gly Glu Ile Thr Tyr Tyr Ala 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 Lys Glu Asn Asn Arg Tyr Arg Phe Phe Asp Tyr Trp Gly Leu Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 403
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 403
Glu Thr 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 Gln Ser Val Tyr Thr Tyr
20 25 30
Leu Ala Trp Tyr Gln Glu Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Ala Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp 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 Gln Tyr Tyr Asp Arg Pro Pro
85 90 95
Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

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

<220>
<223> Synthetic Construct

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

<210> 405
<211> 108
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 405

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

<210> 406

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 406

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

<210> 407

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 407

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

<210> 408
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 409
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 409
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Phe Ser Cys Arg Ala Ser Gln Thr Val Gly Ser Lys
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asp Ala Asn Thr Arg Ala Thr 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 Gln His Thr Asp Trp Pro Pro
 85 90 95
 Tyr Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 410
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 410
 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Arg Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Asn Tyr
 20 25 30
 Ala Val Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35 40 45
 Ser Leu Ile Ser Val Thr Gly Thr Thr Tyr Tyr Ala Asp Ser Val Lys
 50 55 60

Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Gly	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
				85					90					95	
Lys	Val	Thr	Trp	Lys	Asn	Val	Phe	Asp	Tyr	Trp	Gly	Leu	Gly	Thr	Leu
			100					105					110		
Val	Thr	Val	Ser	Ser											
		115													

<210> 411
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 412
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 413
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 413
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Thr Ala Thr Leu Ser Cys Arg Ala Ser Gln Asn Val Arg 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 Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Asn Gly Pro Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

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

<220>
 <223> Synthetic Construct

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

<210> 415
 <211> 103
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 416

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

<220>
 <223> Synthetic Construct

<400> 416
 Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Arg Ile Thr Cys Ser Gly Gly Ala Tyr Ser Ser Tyr Tyr Tyr
 20 25 30
 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
 35 40 45
 Ser Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val Gln Ala Glu
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gly Gly Tyr Asp Gln Ser Ser Tyr Thr
 85 90 95
 Asn Pro Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 417
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 417
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Thr Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Tyr Thr Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp 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 Gln Tyr Tyr Asp Arg Pro Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 418
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 418
 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 Thr Cys Arg Ala Ser Gln Ser Val Tyr Thr Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp 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 Gln Tyr Tyr Asp Arg Pro Pro
 85 90 95

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

<210> 419
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 419
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 Gln Ser Val Tyr Thr Tyr
20 25 30
Leu Ala Trp Tyr Gln Glu Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp 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 Gln Tyr Tyr Asp Arg Pro Pro
85 90 95
Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 420
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 421
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 421
Asp Val Gln Leu Leu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Asn Phe
20 25 30
Ala Val Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val

		35				40				45					
Ser	Thr	Ile	Gly	Ser	Gly	Asp	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly
	50					55					60				
Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln
65					70					75					80
Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys
				85					90					95	
Asp	Ser	Thr	Val	Ser	Trp	Ser	Gly	Asp	Phe	Phe	Asp	Tyr	Trp	Gly	Leu
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 422
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 423
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 424
 <211> 119
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 424

```
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1      5      10
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20      25      30
Asp Leu Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35      40      45
Ser Leu Ile Ser Gly Ser Gly Glu Ile Ile Tyr Tyr Ala 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
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85      90      95
Ala Lys Glu Asn Asn Arg Tyr Arg Phe Phe Asp Asp Trp Gly Leu Gly
100      105      110
Thr Leu Val Thr Val Ser Ser
115
```

<210> 425

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 425

```
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Glu
 1      5      10
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20      25      30
Asp Val Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val
 35      40      45
Ser Leu Ile Ser Gly Ser Gly Glu Ile Ile Tyr Tyr Ala 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
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85      90      95
Ala Lys Glu Asn Asn Arg Tyr Arg Phe Phe Asp Asp Trp Gly Leu Gly
100      105      110
Thr Leu Val Thr Val Ser Ser
115
```

<210> 426

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 426

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

Ser	His	Arg	Ser	Tyr	Ser	Cys	Gln	Val	Thr	His	Glu	Gly	Ser	Thr	Val
				85					90					95	
Glu	Lys	Thr	Val	Ala	Pro	Thr	Glu	Cys	Ser						
			100					105							