

735022000840SEQLIST

SEQUENCE LISTING

<110> MONROE, Kate
 LAM, Helen
 ROSENTHAL, Arnon
 LEE, Seung-Joo
 AVOGADRI-CONNORS, Francesca
 MONTEITH, William

<120> ANTI-SIGLEC-7 ANTIBODIES AND METHODS OF
 USE THEREOF

<130> 735022000840

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> US 62/211,656

<151> 2015-08-28

<150> US 62/265,742

<151> 2015-12-10

<160> 537

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 467

<212> PRT

<213> Homo sapiens

<400> 1

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

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

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<210> 2

<211> 594

<212> PRT

<213> Pan troglodytes

<220>

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<221> VARIANT

<222> 168, 178, 183

<223> Xaa = Any Amino Acid

<400> 2

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

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      370      375      380
Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu Arg
385      390      395      400
Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp Thr
      405      410      415
Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu Val
      420      425      430
Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys Arg
      435      440      445
Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser Leu
      450      455      460
Gln His Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu Leu
465      470      475      480
Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser Phe
      485      490      495
Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala Arg
      500      505      510
Pro Ala Ala Asp Val Gly Asp Thr Gly Met Glu Asp Ala Asn Thr Ile
      515      520      525
Arg Gly Ser Ala Ser Gln Gly Thr Leu Thr Glu Ser Trp Ala Tyr Asp
      530      535      540
Asn Pro Arg His His Gly Leu Ala Ala Pro Ser Ser Gly Glu Glu Arg
545      550      555      560
Glu Val Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln Asp
      565      570      575
Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys Ile
      580      585      590
Pro Lys

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<210> 3

<211> 490

<212> PRT

<213> Pan paniscus

<220>

<221> VARIANT

<222> 465, 469

<223> Xaa = Any Amino Acid

<400> 3

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

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

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<210> 4

<211> 599

<212> PRT

<213> Pongo abelii

<220>

<221> VARIANT

<222> 179, 257, 337, 378

<223> Xaa = Any Amino Acid

<400> 4

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

735022000840SEQLIST

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305          310          315          320
Leu His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln
          325          330          335
Xaa Glu Asp His Gly Thr Asn Phe Thr Leu Gln Tyr Val Leu Thr Pro
          340          345          350
Ala Tyr Val Thr Val Cys Ser Ile Pro Gln Ser His Ser Val Ser Phe
          355          360          365
Leu Pro Val Ser Ile Thr Leu Ser Leu Xaa Pro Phe Asn Phe Phe Ser
          370          375          380
Thr Ala Ser Thr Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu
385          390          395          400
Gly Gln Ser Leu Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala
          405          410          415
Arg Leu Ser Trp Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro
          420          425          430
Ser Asn Pro Leu Val Leu Glu Leu Arg Val His Leu Gly Asp Glu Gly
          435          440          445
Glu Cys Ile Cys Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser
          450          455          460
Leu Asn Leu Ser Leu Gln His Glu Tyr Thr Gly Lys Met Arg Pro Val
465          470          475          480
Ser Gly Val Met Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu
          485          490          495
Val Phe Leu Ser Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg
          500          505          510
Lys Lys Ser Ala Arg Pro Ala Ala Asp Val Gly Asp Thr Gly Met Glu
          515          520          525
Asp Ala Asn Thr Val Arg Gly Ser Ala Ser Gln Gly Thr Leu Ile Glu
530          535          540
Ser Trp Ala Asp Asp Asn Pro Arg His Leu Gly Leu Ala Ala Pro Ser
545          550          555          560
Ser Gly Glu Glu Arg Glu Ile Gln Tyr Ala Ser Leu Ser Phe His Lys
          565          570          575
Gly Glu Pro Gln Asp Leu Ser Arg Gln Glu Ala Thr Asn Asn Glu Tyr
          580          585          590
Ser Glu Ile Lys Ile Pro Lys
          595

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<210> 5

<211> 468

<212> PRT

<213> Gorilla gorilla gorilla

<400> 5

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

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735022000840SEQLIST

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

465

<210> 6

<211> 468

<212> PRT

<213> *Nomascus leucogenys*

<400> 6

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

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735022000840SEQLIST

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          340          345          350
Thr Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu
          355          360          365
Ser Phe Cys Val Ile Phe Ile Val Val Arg Ser Tyr Arg Lys Lys Ser
          370          375          380
Ala Arg Pro Ala Ala Gly Val Gly Asp Thr Gly Met Glu Asp Ala Asn
385          390          395          400
Ala Ile Arg Gly Ser Ala Ser Gln Gly Thr Met Ile Glu Ser Trp Ala
          405          410          415
Asp Asp Asn Pro Arg His His Gly Leu Ala Ala Pro Ser Ser Gly Glu
          420          425          430
Glu Gly Glu Ile Gln Tyr Ala Ser Val Ser Phe His Lys Val Glu Pro
          435          440          445
Gln Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile
          450          455          460
Lys Ile Pro Lys
465

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Arg Ser Ser Gln Ser Leu Val His Ser Thr Gly Asn Thr Tyr Leu His
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Arg Ala Ser Gln Ser Ile Ser Asp Tyr Leu His
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Ser Ala Asn Ser Ser Phe Ile Tyr Met Tyr
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Lys Ala Ser Asp His Ile Asn Asn Trp Leu Ala
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Arg Ser Ser Gln Ser Leu Val His Ser Thr Gly Asn Thr Tyr Leu His
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Arg Ser Ser Gln Ser Leu Val His Ser Thr Gly Asn Ile Tyr Leu His
1 5 10 15

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Lys Ala Ser Gln Lys Val Gly Thr Asn Val Ala
1 5 10

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Ser Ala Asn Ser Ser Phe Thr Tyr Met Tyr
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Arg Ala Ser Gln Ser Ile Ser Glu Tyr Leu His
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Leu Ala Ser Gln Thr Ile Gly Thr Trp Leu Ala
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735022000840SEQLIST

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

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Gln Lys Gly Leu Asn Phe Pro Leu Thr

1

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Gln Gln Trp Ser Ser Ser Pro Leu Thr

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His Gln Tyr Trp Asn Thr Pro Tyr Thr

1

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Ser Gln Asn Thr His Val Pro Tyr Thr

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Ser Gln Asn Thr His Val Pro Tyr Thr

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His Gln Gly Asn Ser Val Gln Tyr Thr

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Gln Gln Trp Ser Ser Ser Pro Leu Thr

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Gln Asn Gly His Asn Phe Pro Tyr Thr

1 5

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Gln Gln Leu Tyr Ser Thr Pro Tyr Thr

1 5

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Ser Gln Asn Thr His Val Pro Tyr Thr

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Gln Gln Gly His Thr Gly Ala Trp Thr

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Gln Lys Ala His Asn Phe Pro Tyr Thr

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<400> 46

Ser Glu Val Phe Pro Ile Thr Tyr Met Asn

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Phe Asn Ile Lys Gly Ser Leu Leu His

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Phe Thr Phe Ser Asn Tyr Asp Met Ser

1

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Ser Glu Val Phe Pro Ile Thr Tyr Met Asn
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<400> 50

Tyr Ile Phe Thr Asp Tyr Gly Ile Thr
1 5

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Ser Glu Val Phe Pro Ile Thr Tyr Met Asn
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<400> 52

Tyr Thr Phe Thr Asn Tyr Trp Ile Asn
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<400> 53

Phe Ile Phe Ser Asn Tyr Asp Met Ser
1 5

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<213> Artificial Sequence

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Phe Thr Phe Ser Asn Tyr Ala Met Ser
1 5

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<400> 55

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

1

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Phe Thr Phe Ser Thr Tyr Ala Met Phe

1

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<400> 59

Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly

1

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Ile Gly Trp Ile Asp Pro Glu Asp Gly Glu Thr Arg Phe Asp

1

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10

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Val Ala Thr Ile Ser Ser Gly Gly Asp Tyr Thr Tyr Tyr Pro
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<400> 62

Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly
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<400> 63

Ile Gly Glu Ile Ser Pro Arg Ser Gly Glu Thr Tyr Phe Asn
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Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly
1 5 10

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735022000840SEQLIST

<400> 65

Ile Gly Asn Ile Tyr Ser Gly Ser Ser Arg Thr Asn Tyr Asn
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<223> Synthetic Construct

<400> 66

Val Ala Thr Ile Ser Ser Gly Gly Gly Tyr Thr Tyr Tyr Pro
1 5 10

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<211> 14

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<400> 67

Val Ala Ser Ile Ser Ser Gly Gly Ser Tyr Asn Tyr Tyr Pro
1 5 10

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<400> 68

Leu Gly Val Ile Trp Ala Gly Gly Ile Thr Asn Tyr Asn
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735022000840SEQLIST

<400> 69

Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly
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<400> 70

Ile Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ser
1 5 10

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<400> 71

Val Ala Ser Ile Ser Ser Gly Gly Arg Tyr Thr Tyr Tyr Pro
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<400> 72

Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr
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735022000840SEQLIST

<400> 73

Ala Arg Thr Glu Tyr Ser Asn Pro Ala Trp Phe Ala Tyr
1 5 10

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Ala Arg His Gly Tyr Gly Asn Tyr Asp Trp Tyr Phe Asp Val
1 5 10

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<400> 75

Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr
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<400> 76

Ala Arg Glu Gly Asn Pro Phe Thr Tyr
1 5

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735022000840SEQLIST

<400> 77

Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr
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<400> 78

Ala Arg Glu Gly Leu Arg Ala Met Asp Tyr
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<400> 79

Thr Arg His Gly Tyr Gly Asn Tyr Asp Trp Tyr Phe Asp Val
1 5 10

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Ala Ser Gln Ser Tyr Gly Ser Ser Tyr Trp Tyr Phe Asp Val
1 5 10

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735022000840SEQLIST

<400> 81

Ala Lys Gln Gly Gly Thr Ser Phe Ser Tyr
1 5 10

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<400> 82

Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr
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<400> 83

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

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<400> 84

Val Arg His Ser Tyr Gly Ser Ser Tyr Trp Tyr Leu Asp Val
1 5 10

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735022000840SEQLIST

<400> 85

Asp	Val	Glx	Met	Thr	Gln	Thr	Pro	Leu	Ser	Leu	Pro	Val	Ser	Leu	Gly
1				5				10						15	
Asp	Gln	Ala	Ser	Ile	Ser	Cys									
			20												

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<400> 86

Asp	Ile	Gln	Met	Thr	Gln	Phe	Pro	Ala	Thr	Leu	Ser	Val	Thr	Pro	Gly
1				5				10						15	
Asp	Arg	Val	Ser	Leu	Ser	Cys									
			20												

<210> 87

<211> 21

<212> PRT

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<400> 87

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

<210> 88

<211> 23

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<400> 88

Asp	Ile	Gln	Met	Thr	Gln	Ser	Leu	Ser	Tyr	Leu	Ser	Val	Ser	Leu	Gly
1				5				10						15	
Gly	Arg	Val	Thr	Ile	Thr	Cys									
			20												

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<400> 89
 Asp Val Glx Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys
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<210> 90
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<400> 90
 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys
 20

<210> 91
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<400> 91
 Asn Glx Met Thr Gln Phe Gln Lys Phe Met Ser Thr Ser Val Gly Asp
 1 5 10 15
 Arg Val Ser Leu Thr Cys
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<210> 92
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<400> 92

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

<210> 93

<211> 23

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<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 93

Asp	Ile	Gln	Met	Thr	Gln	Glx	Pro	Ala	Thr	Leu	Ser	Val	Thr	Pro	Gly
1				5					10					15	
Asp	Arg	Val	Ser	Leu	Ser	Cys									
			20												

<210> 94

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 94

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

<210> 95

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 95

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

735022000840SEQLIST

<210> 96
 <211> 21
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 <213> Artificial Sequence

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<400> 96
 Glx Met Thr Gln Phe Thr Ser Ser Met Ser Gly Ser Glu Gly Asp Arg
 1 5 10 15
 Val Thr Ile Ser His
 20

<210> 97
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 <212> PRT
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<400> 97
 Asp Ile Gln Met Thr Gln Phe Pro Ala Thr Leu Ser Gly Thr Pro Gly
 1 5 10 15
 Asp Arg Val Glx Leu Ser Arg
 20

<210> 98
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 <223> Synthetic Construct

<400> 98
 Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr
 1 5 10 15

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

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735022000840SEQLIST

<400> 99

Trp	Tyr	Gln	His	Lys	Ser	His	Glu	Ser	Pro	Arg	Leu	Leu	Ile	Lys
1				5					10					15

<210> 100

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<223> Synthetic Construct

<400> 100

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

<210> 101

<211> 15

<212> PRT

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<223> Synthetic Construct

<400> 101

Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Asn	Ala	Pro	Arg	Leu	Leu	Ile	Ser
1				5					10					15

<210> 102

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<212> PRT

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<220>

<223> Synthetic Construct

<400> 102

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

<210> 103

<211> 15

<212> PRT

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735022000840SEQLIST

<400> 103

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

<210> 104

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<212> PRT

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<223> Synthetic Construct

<400> 104

Gly	Phe	Gln	Gln	Lys	Pro	Gly	His	Ser	Pro	Lys	Ala	Gly	Ile	Tyr
1				5					10					15

<210> 105

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<223> Synthetic Construct

<400> 105

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

<210> 106

<211> 15

<212> PRT

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<220>

<223> Synthetic Construct

<400> 106

Trp	Tyr	His	Gln	Lys	Ser	His	Glu	Ser	Pro	Arg	Leu	Leu	Ile	Lys
1				5					10					15

<210> 107

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 107

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

<210> 108

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 108

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

<210> 109

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 109

Trp	Tyr	Glu	Gln	Lys	Ala	Asp	Gly	Thr	Ala	Asn	Leu	Ile	Ile	Tyr
1				5					10					15

<210> 110

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 110

Trp	Tyr	Gln	Gln	Lys	Ser	His	Glu	Ser	Pro	Arg	Leu	Glx	Ile	Lys
1				5					10					15

<210> 111

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 111

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

<210> 112

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 112

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

<210> 113

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 113

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

<210> 114

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 114

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

735022000840SEQLIST

<210> 115
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 115
 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ala Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys
 20 25 30

<210> 116
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 116
 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys
 20 25 30

<210> 117
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 117
 Gly Val Gln Asp Arg Phe Thr Ala Arg Gly Leu Gly Ser Asp Phe Ile
 1 5 10 15
 Leu Pro Ile Thr Thr Glx Gln Leu Glu Asp Leu Ala Glu Tyr Glx Cys
 20 25 30

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

<220>

<223> Synthetic Construct

<400> 118

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

<210> 119

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 119

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

<210> 120

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 120

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

<210> 121

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 121

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

735022000840SEQLIST

<210> 122
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 122
 Gly Glx Pro Ser Arg Leu Ser Gly Glx Gly Trp Val Thr Asp Tyr Phe
 1 5 10 15
 Leu Pro Ile His Thr Ser Glu Gln Glu Asp Arg Gly Ser Tyr Phe Cys
 20 25 30

<210> 123
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 123
 Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Ser Asp Phe Thr
 1 5 10 15
 Leu Ser Ile Asn Thr Val Glu Pro Glu Asp Val Gly Val Tyr Tyr Cys
 20 25 30

<210> 124
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 124
 Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 125
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 125

Phe Gly Gly Gly Thr Lys Leu Glu Met Lys
1 5 10

<210> 126

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 126

Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys
1 5 10

<210> 127

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 127

Phe Gly Gly Gly Thr Arg Leu Glu Ile Lys
1 5 10

<210> 128

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 128

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 129

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 129

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 130

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 130

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 131

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 131

Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
1 5 10

<210> 132

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 132

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 133

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 133

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 134

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 134

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 135

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 135

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 136

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 136

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 137

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 137

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

<210> 138

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 138

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

<210> 139

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 139

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

<210> 140

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 140

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

735022000840SEQLIST

<210> 141
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 141
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly
 20 25

<210> 142
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 142
 Gln Val Gln Leu Gln Gln Ser Gly Ser Glu Leu Arg Ser Pro Gly Ser
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Asp Phe Asp
 20 25

<210> 143
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 143
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Thr Ser Gly
 20 25

<210> 144
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 144

Glu	Val	Lys	Leu	Ala	Asp	Ser	Gly	Gly	Ala	Leu	Val	Asn	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Ala	Val	Ser	Gly						
			20					25							

<210> 145

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 145

Leu	Val	Glx	Ser	Gly	Gly	Ala	Leu	Val	Lys	Pro	Gly	Gly	Ser	Leu	Lys
1				5					10					15	
Leu	Ser	Cys	Ala	Ala	Ser	Gly									
			20												

<210> 146

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 146

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

<210> 147

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 147

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

735022000840SEQLIST

<210> 148
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 148
 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly
 20 25

<210> 149
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 149
 Glu Val Lys Leu Val Glu Phe Gly Gly Ala Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Leu Gly
 20 25

<210> 150
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 150
 Trp Val Arg Gln Lys Pro Gly His Gly Phe Glu Trp
 1 5 10

<210> 151
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000840SEQLIST

<400> 151

Trp Ile Lys Gln Arg Pro Leu Gln Gly Leu Glu Trp
1 5 10

<210> 152

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 152

Trp Val Arg Gln Asn Pro Glu Lys Arg Leu Glu Trp
1 5 10

<210> 153

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 153

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

<210> 154

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 154

Trp Val Lys Gln Arg Thr Gly Gln Gly Leu Glu Trp
1 5 10

<210> 155

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 155

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

<210> 156

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 156

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

<210> 157

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 157

Trp Val Arg Gln Asn Pro Glu Lys Arg Leu Glu Trp
1 5 10

<210> 158

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 158

Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp
1 5 10

<210> 159

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 159

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

<210> 160

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 160

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

<210> 161

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 161

Trp Val Arg Gln Arg Pro Gly Lys Gly Leu Asp Trp
1 5 10

<210> 162

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 162

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

<210> 163

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 163

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

<210> 164

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 164

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

<210> 165

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 165

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

<210> 166

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 166

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

<210> 167

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 167

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

<210> 168

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 168

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

<210> 169

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 169

735022000840SEQLIST

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

<210> 170

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 170

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

<210> 171

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 171

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

<210> 172

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 172

Ser	Val	Leu	Met	Ser	Arg	Leu	Ser	Ile	Ser	Lys	Asp	Asn	Ser	Lys	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

735022000840SEQLIST

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

<210> 173

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 173

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

<210> 174

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 174

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

<210> 175

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 175

Asp Ser Ala Lys Asp Arg His Pro Ile Phe Arg Asp Asn Ala Arg Asn			
1	5	10	15

735022000840SEQLIST

Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Lys Asp Thr Ala Met
 20 25 30
 Tyr Tyr Cys
 35

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

<220>
 <223> Synthetic Construct

<400> 176
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
 1 5 10

<210> 177
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 177
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
 1 5 10

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

<220>
 <223> Synthetic Construct

<400> 178
 Trp Gly Ala Gly Ala Thr Val Thr Val Ser Ser
 1 5 10

<210> 179
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 179

Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala
1				5					10	

<210> 180

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 180

Trp	Gly	His	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala
1				5					10	

<210> 181

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 181

Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala
1				5					10	

<210> 182

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 182

Trp	Gly	Gln	Gly	Thr	Ser	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 183

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 183

Trp	Gly	Ala	Gly	Ala	Thr	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 184

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 184

Trp	Gly	Ala	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 185

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 185

Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala
1				5					10	

<210> 186

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 186

Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala
1				5					10	

<210> 187

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 187

Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
 1 5 10

<210> 188

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 188

Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ser
 1 5 10

<210> 189

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 189

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

<210> 190

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 190

```

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

```

<210> 191

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 191

```

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

```

<210> 192

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 192

```

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly

```

735022000840SEOLIST

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

<210> 193

$\langle 211 \rangle$ 112

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 193

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

<210> 194

$\langle 211 \rangle$ 112

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 194

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

735022000840SEQLIST

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

<210> 195

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 195

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

<210> 196

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 196

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

735022000840SEQLIST

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

<210> 197

 $\langle 211 \rangle$ 112

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 197

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

<210> 198

$\langle 211 \rangle$ 112

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 198

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

735022000840SEQLIST

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

<210> 199

<211> 107

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 199

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

$\langle 210 \rangle$ 200

<211> 107

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

$\langle 400 \rangle$ 200

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

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

<220>
<223> Synthetic Construct

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<210> 202
<211> 107
<212> PRT
<213> Artificial Sequence
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<220>
<223> Synthetic Construct

<400> 202															
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Leu	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Asp	Tyr
			20					25					30		
Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35				40						45			
Tyr	Tyr	Ala	Ser	Gln	Ser	Ile	Ser	Gly	Ile	Pro	Ala	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Glu	Pro
65					70					75				80	
Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Lys	Gly	Leu	Asn	Phe	Pro	Leu

735022000840SEQLIST

85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 203
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 203
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asp Tyr
 20 25 30
 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Tyr Ala Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Lys Gly Leu Asn Phe Pro Leu
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 204
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 204
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Asp Tyr
 20 25 30
 Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Tyr Ala Ser Gln Ser Ile Ser 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 Lys Gly Leu Asn Phe Pro Leu
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

100

105

<210> 205
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 205
 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 Ile Ser Asp Tyr
 20 25 30
 Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Tyr Ala Ser Gln Ser Ile Ser Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Lys Gly Leu Asn Phe Pro Leu
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 206
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 206
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ala Ser Gln Ser Ile Ser Asp Tyr
 20 25 30
 Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45
 Tyr Tyr Ala Ser Gln Ser Ile Ser Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 65 70 75 80
 Glu Asp Val Gly Val Tyr Tyr Cys Gln Lys Gly Leu Asn Phe Pro Leu
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

735022000840SEQLIST

<210> 207
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 207
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Arg Ala Ser Gln Ser Ile Ser Asp Tyr
 20 25 30
 Leu His Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile
 35 40 45
 Tyr Tyr Ala Ser Gln Ser Ile Ser Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 65 70 75 80
 Glu Asp Val Gly Val Tyr Tyr Cys Gln Lys Gly Leu Asn Phe Pro Leu
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 208
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 208
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Glu Arg Ala Thr Ile Asn Cys Arg Ala Ser Gln Ser Ile Ser Asp Tyr
 20 25 30
 Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45
 Tyr Tyr Ala Ser Gln Ser Ile Ser Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala
 65 70 75 80
 Glu Asp Val Ala Val Tyr Tyr Cys Gln Lys Gly Leu Asn Phe Pro Leu
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 209

735022000840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 209

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

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

<220>
 <223> Synthetic Construct

<400> 210

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

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

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 211

```

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

```

<210> 212

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 212

```

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

```

<210> 213

<211> 106

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 213

```

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

```

<210> 214

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 214

```

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

```

<210> 215

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 215

```

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

```

<210> 216

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 216

```

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

```

<210> 217

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 217

735022000840SEQLIST

```

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

```

<210> 218

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 218

```

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

```

<210> 219

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 219

```

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

```

735022000840SEQLIST

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

<210> 220

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 220

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

<210> 221

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 221

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

735022000840SEQLIST

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

<210> 222

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 222

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

<210> 223

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 223

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

735022000840SEQLIST

Tyr Gly Ala Thr Ser Leu 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 His Gln Tyr Trp Asn Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 224

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 224

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

<210> 225

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 225

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Asp His Ile Asn Asn Trp
 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 Thr Ser Leu Glu Thr Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60

735022000840SEQLIST

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

<210> 226

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 226

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

<210> 227

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 227

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

735022000840SEQLIST

Glu Asp Val Gly Val Tyr Tyr Cys His Gln Tyr Trp Asn Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 228

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 228

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

<210> 229

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 229

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

735022000840SEQLIST

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

<210> 230

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 230

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

<210> 231

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 231

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

735022000840SEQLIST

<210> 232
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 232
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Thr Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Cys Gly Ile Pro
 50 55 60
 Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Ser Gln Asn
 85 90 95
 Thr His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 233
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022000840SEQLIST

<210> 234
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 235
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 235
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Thr Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Cys Gly Ile Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Ser Gln Asn
 85 90 95
 Thr His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 236
 <211> 112

735022000840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 236

```

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

```

<210> 237

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 237

```

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

```

<210> 238

<211> 112

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 238

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

<210> 239

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 239

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

<210> 240

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

735022000840SEQLIST

<223> Synthetic Construct

<400> 240

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

<210> 241

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 241

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

<210> 242

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 242

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

<210> 243

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 243

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

<210> 244

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 244

Glu	Ile	Val	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Val	Ser	Pro	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

735022000840SEQLIST

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

<210> 245

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 245

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

<210> 246

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 246

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

735022000840SEQLIST

```

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

```

<210> 247

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 247

```

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

```

<210> 248

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 248

```

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

```

735022000840SEQLIST

```

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

```

<210> 249

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 249

```

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

```

<210> 250

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 250

```

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

```

735022000840SEQLIST

```

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

```

<210> 251

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 251

```

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

```

<210> 252

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 252

```

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

```

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

<220>
<223> Synthetic Construct

<220>
<223> Synthetic Construct

Page 89

735022000840SEQLIST

85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 255
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 256
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

100

105

<210> 257
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 257
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Lys Ala Ser Gln Lys Val Gly Thr Asn
 20 25 30
 Val Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45
 Tyr Ser Ala Ser Thr Arg His Arg Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 65 70 75 80
 Glu Asp Val Gly Val Tyr Tyr Cys His Gln Gly Asn Ser Val Gln Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 258
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 258
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ala Ser Gln Lys Val Gly Thr Asn
 20 25 30
 Val Ala Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile
 35 40 45
 Tyr Ser Ala Ser Thr Arg His Arg Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 65 70 75 80
 Glu Asp Val Gly Val Tyr Tyr Cys His Gln Gly Asn Ser Val Gln Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

735022000840SEQLIST

<210> 259
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 260
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 261

735022000840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 261
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Ser Ala Asn Ser Ser Phe Thr Tyr Met
 20 25 30
 Tyr Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
 35 40 45
 Asp Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu
 65 70 75 80
 Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Ser Pro Leu Thr
 85 90 95
 Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 262
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 263
 <211> 106
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 263

```

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

```

<210> 264

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 264

```

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

```

<210> 265

<211> 106

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 265

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

<210> 266

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 266

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

<210> 267

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 267

```

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

```

<210> 268

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 268

```

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

```

<210> 269

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 269

735022000840SEQLIST

```

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

```

<210> 270

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 270

```

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

```

<210> 271

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 271

```

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

```

735022000840SEQLIST

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

<210> 272

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 272

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

<210> 273

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 273

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

735022000840SEQLIST

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

<210> 274

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 274

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

<210> 275

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 275

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	Ile	Ser	Glu	Tyr
			20					25					30		
Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
	35						40					45			

735022000840SEQLIST

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

<210> 276

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 276

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

<210> 277

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 277

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

735022000840SEQLIST

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

<210> 278

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 278

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

<210> 279

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 279

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

735022000840SEQLIST

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Leu Tyr Ser Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 280

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 280

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

<210> 281

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 281

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

735022000840SEQLIST

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

<210> 282
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 282
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Leu Ala Ser Gln Thr Ile Gly Thr Trp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Ala Ala Thr Ser Leu Ala Asp Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Leu Tyr Ser Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 283
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 283
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Leu Ala Ser Gln Thr Ile Gly Thr Trp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Ala Ala Thr Ser Leu Ala Asp Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Leu Tyr Ser Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

735022000840SEQLIST

<210> 284
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 284
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Leu Ala Ser Gln Thr Ile Gly Thr Trp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Thr Ser Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Leu Tyr Ser Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 285
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 285
 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 Leu Ala Ser Gln Thr Ile Gly Thr Trp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Ala Ala Thr Ser Leu Ala Asp Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Leu Tyr Ser Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

735022000840SEQLIST

<210> 286
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 287
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 288
 <211> 107

735022000840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 288

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

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<210> 289

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 289

```

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

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<210> 290

<211> 112

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 290

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

<210> 291

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 291

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

<210> 292

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

735022000840SEQLIST

<223> Synthetic Construct

<400> 292

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

<210> 293

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 293

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

<210> 294

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 294

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

<210> 295

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 295

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

<210> 296

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 296

Asp	Ile	Gln	Leu	Thr	Gln	Ser	Pro	Ser	Phe	Leu	Ser	Ala	Ser	Val	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

735022000840SEQLIST

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

<210> 297

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 297

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

<210> 298

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 298

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

735022000840SEQLIST

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

<210> 299

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 299

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

<210> 300

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 300

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

735022000840SEQLIST

```

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

```

<210> 301

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 301

```

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

```

<210> 302

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 302

```

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

```

735022000840SEQLIST

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

<210> 303

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 303

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

<210> 304

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 304

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

<220>
<223> Synthetic Construct

```
<210> 306
<211> 107
<212> PRT
<213> Artificial Sequence
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<220>
<223> Synthetic Construct

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

735022000840SEQLIST

85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 307
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 308
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

100

105

<210> 309
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 310
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022000840SEQLIST

<210> 311
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 311
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Arg Glu Tyr
 20 25 30
 Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Phe Ala Ser Gln Ser Ile Cys Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Lys Ala His Asn Phe Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

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

<220>
 <223> Synthetic Construct

<400> 312
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Arg Glu Tyr
 20 25 30
 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Phe Ala Ser Gln Ser Ile Cys Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Lys Ala His Asn Phe Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 313

735022000840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 313

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

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

<220>
 <223> Synthetic Construct

<400> 314

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

<210> 315
 <211> 107
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 315

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

<210> 316

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 316

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

<210> 317

<211> 107

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 317

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

<210> 318

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 318

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

<210> 319

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 319

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

<210> 320

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 320

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

<210> 321

<211> 118

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 321

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

<210> 322

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 322

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

<210> 323

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 323

```

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

```

<210> 324

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 324

```

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

```

<210> 325

735022000840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 325

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

<210> 326
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 326

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

735022000840SEQLIST

<210> 327
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 327
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Ser Glu Val Phe Pro Ile
 20 25 30
 Thr Tyr Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly Pro Ser
 50 55 60
 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 328
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 328
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Ser Glu Val Phe Pro Ile
 20 25 30
 Thr Tyr Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly Pro Ser
 50 55 60
 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser

115

<210> 329
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 329
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Asn Ile Lys Gly Ser
 20 25 30
 Leu Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Trp Ile Asp Pro Glu Asp Gly Glu Thr Arg Phe Asp Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Thr Glu Tyr Ser Asn Pro Ala Trp Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 330
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 330
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Asn Ile Lys Gly Ser
 20 25 30
 Leu Leu His Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Trp Ile Asp Pro Glu Asp Gly Glu Thr Arg Phe Asp Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Thr Glu Tyr Ser Asn Pro Ala Trp Phe Ala Tyr Trp Gly Gln

735022000840SEQLIST

100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 331
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 331
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Gly Ser
 20 25 30
 Leu Leu His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Trp Ile Asp Pro Glu Asp Gly Glu Thr Arg Phe Asp Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Thr Glu Tyr Ser Asn Pro Ala Trp Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 332
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022000840SEQLIST

				85					90					95			
Ala	Arg	Thr	Glu	Tyr	Ser	Asn	Pro	Ala	Trp	Phe	Ala	Tyr	Trp	Gly	Gln		
			100					105					110				
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser										
		115					120										

<210> 333

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 333

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

<210> 334

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 334

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

735022000840SEQLIST

65					70					75				80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr
				85					90					95
Ala	Arg	Thr	Glu	Tyr	Ser	Asn	Pro	Ala	Trp	Phe	Ala	Tyr	Trp	Gly
			100					105					110	Gln
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120							

<210> 335

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 335

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

<210> 336

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 336

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

735022000840SEQLIST

50		55		60	
Lys	Ser	Arg	Val	Thr	Ile
65		70		75	
Leu	Lys	Leu	Ser	Ser	Val
		85		90	
Ala	Arg	Thr	Glu	Tyr	Ser
100		105		110	
Gly	Thr	Leu	Val	Thr	Val
115		120			

<210> 337

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 337

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

<210> 338

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 338

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

735022000840SEQLIST

```

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

```

<210> 339

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 339

```

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

```

<210> 340

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 340

```

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr

```

735022000840SEQLIST

```

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

```

<210> 341

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 341

```

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

```

<210> 342

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 342

```

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

```

735022000840SEQLIST

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

<210> 343

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 343

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

<210> 344

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 344

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

<210> 345

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 345

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

<210> 346

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

735022000840SEQLIST

<223> Synthetic Construct

<400> 346

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

<210> 347

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 347

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

<210> 348

<211> 121

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 348

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

<210> 349

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 349

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

<210> 350

<211> 118

735022000840SEQLIST

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

<400> 350

[illegible]

<210> 351

<211> 118

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 351

[illegible]

735022000840SEQLIST

<210> 352
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 352
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Ser Glu Val Phe Pro Ile
 20 25 30
 Thr Tyr Met Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly Pro Ser
 50 55 60
 Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala
 65 70 75 80
 Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr
 85 90 95
 Cys Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 353
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 353
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Glu Val Phe Pro Ile
 20 25 30
 Thr Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly Asp Ser
 50 55 60
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu
 65 70 75 80
 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

735022000840SEQLIST

<210> 354
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 354
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Glu Val Phe Pro Ile
 20 25 30
 Thr Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly Asp Ser
 50 55 60
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu
 65 70 75 80
 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 355
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Leu Val Thr Val Ser Ser
115

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<210> 356
<211> 118
<212> PRT
<213> Artificial Sequence
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<220>
<223> Synthetic Construct

[illegible]

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<210> 357
<211> 118
<212> PRT
<213> Artificial Sequence
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<220>
<223> Synthetic Construct

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

735022000840SEQLIST

Cys Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 358
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 358
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Ser Glu Val Phe Pro Ile
 20 25 30
 Thr Tyr Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Asp Ile Leu Pro Ser Ile Gly Arg Thr Met Tyr Gly Pro Ser
 50 55 60
 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Ser Glu Gly Tyr Leu Leu Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 359
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022000840SEQLIST

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

<210> 360
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 360
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Tyr
 20 25 30
 Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Ser Pro Arg Ser Gly Glu Thr Tyr Phe Asn Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Gly Asn Pro Phe Thr Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 361
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 361
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ile Phe Thr Asp Tyr
 20 25 30
 Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Ser Pro Arg Ser Gly Glu Thr Tyr Phe Asn Asp Ser Val
 50 55 60

735022000840SEQLIST

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 Gly Asn Pro Phe Thr Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 362

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 362

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

<210> 363

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 363

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

735022000840SEQLIST

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

<210> 364

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 364

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

<210> 365

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 365

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

735022000840SEQLIST

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

<210> 366

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 366

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

<210> 367

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 367

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

735022000840SEQLIST

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

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<210> 368

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 368

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

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<210> 369

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 369

735022000840SEQLIST

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

<210> 370

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 370

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

<210> 371

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 371

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

<210> 372

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 372

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

<210> 373

<211> 118

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 373

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

<210> 374

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 374

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

<210> 375

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 375

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

<210> 376

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 376

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

<210> 377

735022000840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 377

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

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

<220>
 <223> Synthetic Construct

<400> 378

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

735022000840SEQLIST

<210> 379
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 379
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30
 Trp Ile Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Asn Ile Tyr Ser Gly Ser Ser Arg Thr Asn Tyr Asn Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Gly Leu Arg Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 380
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

115

<210> 381
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 381
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30
 Trp Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Asn Ile Tyr Ser Gly Ser Ser Arg Thr Asn Tyr Asn Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Gly Leu Arg Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 382
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022000840SEQLIST

100 105 110
 Val Thr Val Ser Ser
 115

<210> 383
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 383
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30
 Trp Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Asn Ile Tyr Ser Gly Ser Ser Arg Thr Asn Tyr Asn Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Gly Leu Arg Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 384
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022000840SEQLIST

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

<210> 385

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 385

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

<210> 386

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 386

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

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

```
<210> 387
<211> 117
<212> PRT
<213> Artificial Sequence
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<220>
<223> Synthetic Construct

[illegible]

```
<210> 388
<211> 117
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Synthetic Construct

<400> 388

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

735022000840SEQLIST

50		55		60	
Lys	Ser	Arg	Val	Thr	Ile
65		70		75	
Leu	Lys	Leu	Ser	Ser	Val
		85		90	
Ala	Arg	Glu	Gly	Leu	Arg
		100		105	
Val	Thr	Val	Ser	Ser	
		115			

<210> 389

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 389

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

<210> 390

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 390

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

735022000840SEQLIST

```

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

```

<210> 391

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 391

```

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

```

<210> 392

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 392

```

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1              5              10              15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Ser Asn Tyr

```

735022000840SEQLIST

```

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

```

<210> 393

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 393

```

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

```

<210> 394

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 394

```

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

```

735022000840SEQLIST

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

<210> 395

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 395

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

<210> 396

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 396

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

<210> 397

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 397

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

<210> 398

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

735022000840SEQLIST

<223> Synthetic Construct

<400> 398

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

<210> 399

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 399

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

<210> 400

<211> 121

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

 $\langle 220 \rangle$

<223> Synthetic Construct

$\langle 400 \rangle$ 400

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

$\langle 210 \rangle$ 401

$\langle 211 \rangle$ 121

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

<400> 401

Gln 1	Val	Gln	Leu	Val 5	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr
Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
Ala	Ser	Ile	Ser	Ser	Gly	Gly	Ser	Tyr	Asn	Tyr	Tyr	Pro	Asp	Ser	Val
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
Ala	Ser	Gln	Ser	Tyr	Gly	Ser	Ser	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							

$\langle 210 \rangle$ 402

<211> 121

735022000840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 402

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

<210> 403

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 403

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

735022000840SEQLIST

<210> 404
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 404
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Ser Gly Gly Ser Tyr Asn Tyr Tyr Pro Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ser Gln Ser Tyr Gly Ser Ser Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 405
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 405
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Ser Gly Gly Ser Tyr Asn Tyr Tyr Pro Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Ser Gln Ser Tyr Gly Ser Ser Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

735022000840SEQLIST

<210> 406
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 406
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Ala Met Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Ser Gly Gly Ser Tyr Asn Tyr Tyr Pro Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ser Gln Ser Tyr Gly Ser Ser Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 407
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022000840SEQLIST

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 408

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 408

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

<210> 409

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 409

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

735022000840SEQLIST

Lys Gln Gly Gly Thr Ser Phe Ser Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 410
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 410
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Asn Tyr
 20 25 30
 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Gly Val Ile Trp Ala Gly Gly Ile Thr Asn Tyr Asn 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 Gly Gly Thr Ser Phe Ser Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 411
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 411
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Asn Tyr
 20 25 30
 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Gly Val Ile Trp Ala Gly Gly Ile Thr Asn Tyr Asn Asp Ser Val Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu
 65 70 75 80

735022000840SEQLIST

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

<210> 412

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 412

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

<210> 413

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 413

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

735022000840SEQLIST

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 Gly Gly Thr Ser Phe Ser Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 414

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 414

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

<210> 415

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 415

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

735022000840SEQLIST

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

<210> 416

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 416

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

<210> 417

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 417

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Asn Tyr
 20 25 30

735022000840SEQLIST

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

<210> 418

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 418

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

<210> 419

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 419

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

735022000840SEQLIST

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

<210> 420

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 420

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

<210> 421

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 421

735022000840SEQLIST

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

<210> 422

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 422

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

<210> 423

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 423

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

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<210> 424

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 424

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

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<210> 425

<211> 118

<212> PRT

<213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 425

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

<210> 426

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 426

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

<210> 427

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 427

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

<210> 428

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 428

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

<210> 429

735022000840SEQLIST

<211> 118

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

<400> 429

[illegible]

$\langle 210 \rangle$ 430

<211> 118

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 430

[illegible]

735022000840SEQLIST

<210> 431
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 431
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ser Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 432
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 432
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ser Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser

115

<210> 433
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 433
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ser Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 434
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 434
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ser Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr

735022000840SEQLIST

100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 435
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 435
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ser Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 436
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 436
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ser Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys

735022000840SEQLIST

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

<210> 437

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 437

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

<210> 438

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 438

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

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

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<210> 439
<211> 121
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Synthetic Construct

<400> 439															
Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Thr	Tyr
			20					25					30		
Ala	Met	Phe	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ala	Ser	Ile	Ser	Ser	Gly	Gly	Arg	Tyr	Thr	Tyr	Tyr	Pro	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Val	Arg	His	Ser	Tyr	Gly	Ser	Ser	Tyr	Trp	Tyr	Leu	Asp	Val	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

```
<210> 440
<211> 121
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Synthetic Construct

<400> 440

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

735022000840SEQLIST

50		55		60	
Lys	Gly	Arg	Phe	Thr	Ile
65		70		75	
Leu	Gln	Met	Asn	Ser	Leu
		85		90	
Val	Arg	His	Ser	Tyr	Gly
		100		105	
Gln	Gly	Thr	Leu	Val	Thr
		115		120	

<210> 441

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 441

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

<210> 442

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 442

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

735022000840SEQLIST

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

```

<210> 443

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 443

```

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

```

<210> 444

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 444

```

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
  1              5              10              15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Phe Ser Thr Tyr

```

735022000840SEQLIST

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

```

<210> 445

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 445

```

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

```

<210> 446

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 446

```

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu

```

735022000840SEQLIST

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

<210> 447

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 447

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

<210> 448

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 448

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

<210> 449

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 449

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

<210> 450

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 450

```

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

```

<210> 451

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 451

```

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

```

<210> 452

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 452

```

Asp Ile Gln Met Thr Gln Ser Leu Ser Tyr Leu Ser Val Ser Leu Gly

```

735022000840SEQLIST

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

<210> 453

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 453

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

<210> 454

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 454

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

735022000840SEQLIST

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

<210> 455

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 455

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

<210> 456

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 456

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

735022000840SEQLIST

```

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

```

<210> 457

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 457

```

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

```

<210> 458

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 458

```

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

```

735022000840SEQLIST

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

<210> 459

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 459

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

<210> 460

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 460

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

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

<220>
<223> Synthetic Construct

<220>
<223> Synthetic Construct

Page 194

735022000840SEQLIST

				85					90				95				
Cys	Ala	Arg	Ser	Glu	Gly	Tyr	Leu	Leu	Ala	Tyr	Trp	Gly	Gln	Gly	Thr		
			100					105					110				
Leu	Val	Thr	Val	Ser	Ala												
			115														

<210> 463

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 463

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

<210> 464

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 464

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

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

```
<210> 465
<211> 118
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Synthetic Construct

[illegible]

```
<210> 466
<211> 116
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Synthetic Construct

<400> 466

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

735022000840SEQLIST

```

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

```

<210> 467

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 467

```

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

```

<210> 468

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 468

```

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

```

735022000840SEQLIST

```

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

```

<210> 469

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 469

```

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

```

<210> 470

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 470

```

Leu Val Glx Ser Gly Gly Ala Leu Val Lys Pro Gly Gly Ser Leu Lys
  1              5              10              15
Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr Ala Met Ser

```

735022000840SEQLIST

```

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

```

<210> 471

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 471

```

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

```

<210> 472

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 472

```

Gln Val Gln Leu Gln Gln Ser Gly Ser Glu Leu Arg Ser Pro Gly Ser

```

735022000840SEQLIST

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

<210> 473

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 473

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

<210> 474

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 474

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

<210> 475

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 475

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

<210> 476

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 476

Arg Ala Ser Gln Asp Ile Asn Thr Tyr Leu Asn
1 5 10

<210> 477

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 477

Tyr Thr Ser Arg Leu His Ser
1 5

<210> 478

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 478

Gln Gln Gly Asn Thr Leu Pro Trp Thr
1 5

<210> 479

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 479

Gly Tyr Ala Phe Thr Asn Cys Trp Met Asn
1 5 10

<210> 480

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 480

Val Ser Thr Ile Ser Ser Gly Gly Gly Tyr Thr Tyr Tyr Ala
1 5 10

<210> 481

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 481

Val Ala Thr Ile Ser Ser Gly Gly Gly Tyr Thr Tyr Tyr Ala
1 5 10

<210> 482

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 482

Arg Ile Phe Pro Gly Asn Gly His Thr Asn
1 5 10

<210> 483

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 483

Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr
1 5

<210> 484

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 484

```

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

```

<210> 485

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 485

```

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

```

<210> 486

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 486

```

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly

```

735022000840SEQLIST

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

<210> 487

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 487

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

<210> 488

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 488

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5				10						15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Asp	Ile	Asn	Thr	Tyr

735022000840SEQLIST

```

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

```

<210> 489

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 489

```

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

```

<210> 490

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 490

```

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

```

735022000840SEQLIST

```

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

```

<210> 491

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 491

```

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

```

<210> 492

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 492

```

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

```

735022000840SEQLIST

```

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

```

<210> 493

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 493

```

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

```

<210> 494

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 494

```

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

```

735022000840SEQLIST

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

<210> 495

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 495

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

<210> 496

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 496

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

<210> 497

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 497

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser 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 Asp Ala Ser Asn Arg Ala 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 Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro
 85 90 95

<210> 498

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 498

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys

735022000840SEQLIST

1

5

10

<210> 499

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 499

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

<210> 500

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 500

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

735022000840SEQLIST

<210> 501
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 501
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Ser Ala Asn Ser Ser Phe Thr Tyr Met
 20 25 30
 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45
 Asp Thr Ser Asn Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
 65 70 75 80
 Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Ser Pro Leu Thr
 85 90 95
 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 502
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 502
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Val Thr Met Ser Cys Ser Ala Asn Ser Ser Phe Thr Tyr Met
 20 25 30
 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45
 Asp Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Glu Pro Glu
 65 70 75 80
 Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Ser Pro Leu Thr
 85 90 95
 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 503

735022000840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 503

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

<210> 504
 <211> 95
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 504

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

<210> 505
 <211> 15
 <212> PRT
 <213> Artificial Sequence

735022000840SEQLIST

<220>

<223> Synthetic Construct

<400> 505

Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10 15

<210> 506

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 506

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

<210> 507

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 507

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

735022000840SEQLIST

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

<210> 508

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 508

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

<210> 509

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 509

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

735022000840SEQLIST

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

<210> 510

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 510

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

<210> 511

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 511

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

735022000840SEQLIST

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

<210> 512
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 512
 Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 513
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 513
 Asp Val Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15
 Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Asn Thr Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
 35 40 45
 Tyr Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln
 65 70 75 80
 Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Trp
 85 90 95
 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 514
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>

735022000840SEQLIST

<223> Synthetic Construct

<400> 514

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

<210> 515

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 515

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

<210> 516

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000840SEQLIST

<400> 516

```

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

```

<210> 517

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 517

```

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

```

<210> 518

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 518

```

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

```

735022000840SEQLIST

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

<210> 519

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 519

Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser
1				5				10					15	

<210> 520

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 520

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

735022000840SEQLIST

<210> 521
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 521
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105

<210> 522
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 522
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

735022000840SEQLIST

<210> 523
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 523
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 524
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 524
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Ala Thr Leu Thr Glu Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Leu Thr Val Ser Ser

115

<210> 525
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 525
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Cys
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Phe Pro Gly Asn Gly His Thr Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Ala Thr Leu Thr Glu Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Tyr Ser Asp Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Leu Thr Val Ser Ser
 115

<210> 526
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 526
 ctccactcac ggcaaattca a 21

<210> 527
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 527
 gatgacaagc ttccattct cg 22

<210> 528
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 528
 ccgtcagccg atttgctatc t 21

 <210> 529
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 529
 acggcagaga ggaggttgac tt 22

 <210> 530
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 530
 acaacaaaaa agcctcgtgc tg 22

 <210> 531
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 531
 ccattgaggt ggagagcttt ca 22

 <210> 532
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

<400> 532
 ggcaaaccca aggtctacgt tc 22

 <210> 533
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 533
 tacctcattg gccagctgct t 21

 <210> 534
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 534
 aggacctggg ttggaagtgg 20

 <210> 535
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 535
 agttggcatg gtagcccttg 20

 <210> 536
 <211> 21
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic Construct

 <400> 536
 Met Glu Val Gly Trp Tyr Arg Ser Pro Phe Ser Arg Val Val His Leu
 1 5 10 15
 Tyr Arg Asn Gly Lys
 20

 <210> 537

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

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1
 <223> Xaa = D or E

<220>
 <221> VARIANT
 <222> 2, 3
 <223> Xaa = Any Amino Acid and up to 2 of them can be present or absent

<220>
 <221> VARIANT
 <222> 5, 6
 <223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 7
 <223> Xaa = L or I

<220>
 <221> VARIANT
 <222> 8, 9, 10, 11, 12, 13, 14, 15
 <223> Xaa = Any Amino Acid and up to 2 of them can be present or absent

<220>
 <221> VARIANT
 <222> 17, 18
 <223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 19
 <223> Xaa = L or I

<400> 537
 Xaa Xaa Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
 1 5 10 15
 Xaa Xaa Xaa