

735022001040SEQLIST

SEQUENCE LISTING

<110> ALECTOR LLC
ROSENTHAL, Arnon
MONROE, Kate
LEE, Seung-Joo

<120> ANTI-SIGLEC-9 ANTIBODIES AND METHODS OF
USE THEREOF

<130> 735022001040

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> US 62/248,231

<151> 2015-10-29

<160> 252

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 463

<212> PRT

<213> Homo sapiens

<400> 1

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

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

<210> 2

<211> 463

<212> PRT

<213> Pan troglodytes

<400> 2

Met Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Ala Glu

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

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385					390					395					400
Gln	Gly	Pro	Leu	Thr	Glu	Pro	Cys	Ala	Glu	Asp	Ser	Pro	Pro	Asp	Gln
				405					410					415	
Pro	Pro	Pro	Ala	Ser	Ala	Arg	Ser	Ser	Val	Gly	Glu	Gly	Glu	Leu	Gln
			420					425					430		
Tyr	Ala	Ser	Leu	Ser	Phe	Gln	Met	Val	Lys	Pro	Arg	Asp	Leu	Arg	Gly
		435					440					445			
Gln	Glu	Ala	Thr	Asp	Thr	Glu	Tyr	Ser	Glu	Ile	Lys	Ile	His	Arg	
	450					455					460				

<210> 3

<211> 463

<212> PRT

<213> Chlorocebus sabaueus

<400> 3

Met	Leu	Leu	Leu	Leu	Leu	Leu	Pro	Leu	Leu	Trp	Gly	Arg	Glu	Arg	Val
1				5				10					15		
Glu	Gly	Gln	Arg	Asn	Asn	Arg	Lys	Asp	Tyr	Pro	Leu	Thr	Met	Gln	Gly
		20						25					30		
Ser	Ala	Thr	Val	Gln	Glu	Gly	Leu	Cys	Val	His	Val	Leu	Cys	Ser	Phe
		35					40					45			
Ser	Tyr	Pro	Arg	Phe	Gly	Trp	Ile	Thr	Ser	Asp	Pro	Val	His	Gly	Tyr
	50					55				60					
Trp	Phe	Gln	Ala	Gly	Ala	Asp	Thr	Asp	Arg	Asp	Thr	Pro	Val	Ala	Thr
65					70				75					80	
Asn	Asn	Pro	Ala	Arg	Ala	Ala	Arg	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	Ser	Ser	Asp	Ala	Gly	Thr	Tyr	Phe	Phe	Arg	Val	Glu	Thr	Gly
		115					120					125			
Lys	Thr	Lys	Trp	Asn	Tyr	Lys	Tyr	Val	Leu	Leu	Ser	Val	Arg	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	Pro	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		
Asp	Pro	Ser	Thr	Thr	Arg	Ser	Ser	Val	Leu	Thr	Leu	Ile	Pro	Gln	Pro
		195				200						205			
Gln	Asp	His	Gly	Thr	Ser	Leu	Thr	Cys	Gln	Val	Thr	Phe	Pro	Gly	Ala
	210					215					220				
Ser	Val	Thr	Thr	Asn	Lys	Thr	Ile	His	Leu	Asn	Val	Ser	Tyr	Pro	Pro
225					230					235				240	
Gln	Asn	Leu	Thr	Met	Thr	Val	Phe	Gln	Gly	Asn	Gly	Thr	Val	Ser	Ile

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				245				250					255				
Val	Leu	Gly	Asn	Gly	Ser	Ser	Leu	Ser	Val	Pro	Glu	Gly	Gln	Ser	Leu		
			260					265					270				
Arg	Leu	Val	Cys	Ala	Val	Asp	Ser	Asn	Pro	Pro	Ala	Arg	Leu	Ser	Leu		
		275					280					285					
Ser	Trp	Gly	Gly	Leu	Thr	Leu	Cys	Pro	Ser	Gln	Pro	Ser	Ser	Pro	Gly		
	290					295					300						
Val	Leu	Glu	Leu	Pro	Arg	Val	His	Leu	Arg	Asp	Glu	Glu	Glu	Phe	Thr		
305					310					315					320		
Cys	Arg	Ala	Gln	Asn	Leu	Leu	Gly	Ser	Gln	Gln	Val	Ser	Leu	Asn	Val		
			325					330						335			
Ser	Leu	Gln	Ser	Lys	Ala	Thr	Ser	Gly	Leu	Thr	Gln	Gly	Ala	Val	Gly		
		340						345					350				
Ala	Gly	Ala	Thr	Ala	Leu	Val	Phe	Leu	Ser	Phe	Cys	Val	Ile	Phe	Val		
	355						360					365					
Val	Val	Arg	Ser	Cys	Arg	Lys	Lys	Ser	Ala	Arg	Pro	Val	Ala	Gly	Val		
	370					375					380						
Gly	Asp	Thr	Gly	Ile	Glu	Asp	Ala	Asn	Ala	Val	Arg	Gly	Ser	Ala	Ser		
385					390					395					400		
Gln	Gly	Ser	Leu	Thr	Glu	Pro	Trp	Ala	Glu	Asp	Ser	Pro	Pro	Asp	Gln		
			405					410						415			
Pro	Pro	Pro	Ala	Ser	Ala	Arg	Ser	Ser	Val	Gly	Glu	Glu	Glu	Leu	Gln		
			420				425						430				
Tyr	Ala	Ser	Leu	Ser	Phe	Gln	Thr	Val	Lys	Pro	Arg	Asp	Leu	Gln	Gly		
	435					440					445						
Gln	Glu	Ala	Thr	Asn	Thr	Glu	Tyr	Ser	Glu	Ile	Lys	Ile	His	Lys			
	450					455					460						

<210> 4

<211> 464

<212> PRT

<213> Macaca mulatta

<400> 4

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

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

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<211> 467

<212> PRT

<213> Mus musculus

<400> 5

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

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[illegible]

$\langle 210 \rangle$ 6

$\langle 211 \rangle$ 11

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

$\langle 400 \rangle$ 6

Arg Ala Ser Gln Glu Ile Ser Gly Tyr Leu Gly
1 5 10

<210> 7

<211> 16

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

<400> 7

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

$\langle 210 \rangle$ 8

<211> 16

<212> PRT

735022001040SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 8

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

<210> 9

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 9

His	Thr	Thr	Arg	Gly	Ile	Tyr	Trp	Tyr	Lys	Gly
1				5					10	

<210> 10

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 10

Ser	Thr	Ser	Thr	Leu	Asp	Ser
1				5		

<210> 11

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 11

Leu	Val	Cys	Lys	Leu	Asp	Ser
1				5		

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<210> 12
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 12
 Leu Val Ser Lys Leu Glu Ser
 1 5

<210> 13
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 13
 Cys Ala Arg Asn Gly Glu Gly
 1 5

<210> 14
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 14
 Leu Gln Tyr Ala Ser Tyr Pro Pro Thr
 1 5

<210> 15
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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735022001040SEQLIST

<400> 15

Trp Gln Gly Thr His Phe Pro Gln Thr
1 5

<210> 16

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 16

Leu Gln Ala Thr His Phe Pro Leu Thr
1 5

<210> 17

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 17

Ala Gln Phe Tyr Gln Phe Pro Trp Thr
1 5

<210> 18

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 18

Leu Gln Ala Pro His Phe Pro Leu Thr
1 5

<210> 19

<211> 9

<212> PRT

<213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 19

Phe Thr Phe Ser Asn Tyr Ala Met Ser
1 5

<210> 20

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 20

Tyr Ala Phe Ser Ser Tyr Trp Met Asn
1 5

<210> 21

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 21

Tyr Thr Phe Thr Ser Tyr Trp Met His
1 5

<210> 22

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 22

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

735022001040SEQLIST

<210> 23

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 23

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

<210> 24

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 24

Ile	Gly	Glu	Ile	Asn	Pro	Arg	Asp	Gly	Val	Ser	Asn	Cys	Asn
1				5						10			

<210> 25

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 25

Ile	Gly	Glu	Ile	Asp	Pro	Ser	Asp	Ser	Tyr	Thr	Tyr	Tyr	Asn
1				5					10				

<210> 26

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 26

735022001040SEQLIST

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

<210> 27
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<220>
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<400> 27
 Ala Arg Trp Leu Leu Arg Phe Ala Tyr
 1 5

<210> 28
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 <212> PRT
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<220>
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<400> 28
 Thr Ile Trp Glu Asp Tyr Phe Asp Tyr
 1 5

<210> 29
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<220>
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<400> 29
 Ala Ala Tyr Tyr Ser Asn Tyr Val Arg Ala Tyr
 1 5 10

<210> 30
 <211> 23
 <212> PRT
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735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 30

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

<210> 31

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 31

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

<210> 32

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 32

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

<210> 33

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 33

Asp	Ile	Gln	Lys	Pro	Gln	Ser	Pro	Phe	Tyr	Met	Cys	Val	Ser	Gly	Gly
1				5				10						15	
Glu	Thr	Ile	Ser	Ile	Ser	Ser									
			20												

<210> 34

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 34

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

<210> 35

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 35

Trp	Leu	Gln	Gln	Lys	Pro	Asp	Gly	Thr	Ile	Lys	Arg	Leu	Ile	Phe
1				5				10						15

<210> 36

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 36

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

735022001040SEQLIST

<210> 37

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 37

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

<210> 38

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 38

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

<210> 39

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 39

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

<210> 40

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 40

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

<210> 41

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 41

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

<210> 42

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 42

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

<210> 43

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 43

Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

735022001040SEQLIST

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

<210> 44

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 44

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

<210> 45

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 45

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

<210> 46

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 46

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

<210> 47

<211> 26

<212> PRT

<213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 47

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

<210> 48

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 48

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> 49

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 49

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

<210> 50

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 50

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

<210> 51

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 51

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

<210> 52

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 52

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

<210> 53

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 53

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

<210> 54

735022001040SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 54
 Asp Ser Val Lys Gly Arg Phe Ala Ile Ser Arg Asp Asn Ala Lys Asn
 1 5 10 15
 Thr Leu Tyr Leu Gln Met Ser Asn Leu Arg Ser Glu Asp Thr Ala Leu
 20 25 30
 Tyr Tyr Cys
 35

<210> 55
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 55
 Gly Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
 20 25 30
 Tyr Phe Cys
 35

<210> 56
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 56
 Glu Lys Phe Thr Ser Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Asn
 1 5 10 15
 Thr Ala Tyr Met Gln Leu Asn Asn Leu Thr Ser Glu Asp Ser Ala Val
 20 25 30
 Tyr Tyr Cys
 35

735022001040SEQLIST

<210> 57
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 57
 Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
 20 25 30
 Tyr Tyr Cys
 35

<210> 58
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 58
 Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
 1 5 10

<210> 59
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 59
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
 1 5 10

<210> 60
 <211> 11
 <212> PRT

735022001040SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 60

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

<210> 61

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 61

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

<210> 62

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 62

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 Glu Ile Ser Gly Tyr
20 25 30

735022001040SEQLIST

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

<210> 63

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 63

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

<210> 64

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 64

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

735022001040SEQLIST

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

<210> 65

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 65

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

<210> 66

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 66

735022001040SEQLIST

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

<210> 67

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 67

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

<210> 68

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 68

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

<210> 69

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 69

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

<210> 70

<211> 107

<212> PRT

<213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 70

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

<210> 71

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 71

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

<210> 72

<211> 112

<212> PRT

735022001040SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 72

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

<210> 73

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 73

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

<210> 74

735022001040SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 74

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

<210> 75
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 75

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

735022001040SEQLIST

<210> 76
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 77
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022001040SEQLIST

100

105

110

<210> 78
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 78

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

<210> 79
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 79

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

735022001040SEQLIST

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

<210> 80
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 81
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 81
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Leu Val Cys Lys Leu Asp Ser Gly Ile Pro
 50 55 60
 Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile

735022001040SEQLIST

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

<210> 82
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 83
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 83
Asn Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Leu Gly
1 5 10 15
Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Thr
20 25 30
Asn Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Leu Val Ser Lys Leu Glu Ser Gly Val Pro

735022001040SEQLIST

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

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<210> 84
<211> 112
<212> PRT
<213> Artificial Sequence
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<220>
<223> Synthetic Construct

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

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<210> 85
<211> 112
<212> PRT
<213> Artificial Sequence
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<220>
<223> Synthetic Construct

<400> 85
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Thr
 20 25 30
 Asn Gly Lys Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Pro Gly Gln Ser

735022001040SEQLIST

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

<210> 86
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

86															
Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Asp	Ser	Leu	Ala	Val	Ser	Leu	Gly
1	5	10	15												
Glu	Arg	Ala	Thr	Ile	Asn	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Thr
20	25	30													
Asn	Gly	Lys	Thr	Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro
35	40	45													
Pro	Lys	Leu	Leu	Ile	Tyr	Leu	Val	Ser	Lys	Leu	Glu	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	Leu	Gln	Ala
85	90	95													
Thr	His	Phe	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
100	105	110													

<210> 87
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

87															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Val	Gly
1	5	10	15												
Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Thr

735022001040SEQLIST

			20					25					30		
Asn	Gly	Lys	Thr	Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala
		35					40					45			
Pro	Lys	Leu	Leu	Ile	Tyr	Leu	Val	Ser	Lys	Leu	Glu	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	Leu	Gln	Ala
				85					90					95	
Thr	His	Phe	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 88

$\langle 211 \rangle$ 112

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 88

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

<210> 89

$\langle 211 \rangle$ 112

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 89

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

735022001040SEQLIST

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

<210> 90

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 90

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

<210> 91

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 91

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

<210> 92

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 92

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

<210> 93

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

735022001040SEQLIST

<223> Synthetic Construct

<400> 93

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

<210> 94

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 94

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

<210> 95

<211> 107

<212> PRT

<213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 95

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

<210> 96

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 96

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

<210> 97

<211> 107

735022001040SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 97

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

<210> 98

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 98

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

735022001040SEQLIST

<210> 99
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 99
 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 His Thr Thr Arg Gly Ile Tyr Trp Tyr
 20 25 30
 Lys Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Cys Ala Arg Asn Gly Glu Gly 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 Ala Gln Phe Tyr Gln Phe Pro Trp
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 100
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022001040SEQLIST

<210> 101
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 101
 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 His Thr Thr Arg Gly Ile Tyr Trp Tyr
 20 25 30
 Lys Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Cys Ala Arg Asn Gly Glu Gly 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 Ala Gln Phe Tyr Gln Phe Pro Trp
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 102
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 102
 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 His Thr Thr Arg Gly Ile Tyr Trp Tyr
 20 25 30
 Lys Gly Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45
 Tyr Cys Ala Arg Asn Gly Glu Gly 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 Ala Gln Phe Tyr Gln Phe Pro Trp
 85 90 95

735022001040SEQLIST

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

<210> 103

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 103

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

<210> 104

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 104

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

735022001040SEQLIST

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

<210> 105
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 106
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 106
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Thr
 20 25 30
 Asn Gly Lys Thr Tyr Leu Asn Trp Phe Gln Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Arg Arg Leu Ile Tyr Leu Val Ser Lys Leu Glu Ser Gly Val Pro
 50 55 60

735022001040SEQLIST

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

<210> 107

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 107

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

<210> 108

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 108

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

735022001040SEQLIST

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

<210> 109
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 109
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Thr
 20 25 30
 Asn Gly Lys Thr Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Leu Val Ser Lys Leu Glu 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 Leu Gln Ala
 85 90 95
 Pro His Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 110
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 110
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Thr
 20 25 30

735022001040SEQLIST

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

<210> 111

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 111

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

<210> 112

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 112

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

735022001040SEQLIST

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

<210> 113

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 113

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

<210> 114

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 114

735022001040SEQLIST

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

<210> 115

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 115

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

<210> 116

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 116

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

<210> 117

<211> 119

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 117

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

<210> 118

735022001040SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 118

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

```

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

<220>
 <223> Synthetic Construct

<400> 119

```

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

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735022001040SEQLIST

100
 Thr Leu Val Thr Val Ser Ser
 115

<210> 120
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 120
 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 Thr Ile Asn Asn Gly Gly Ser Tyr Thr Tyr 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
 Val Arg Arg Asp Tyr Gly Thr Ser Asp Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 121
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 121
 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 Thr Ile Asn Asn Gly Gly Ser Tyr Thr Tyr Tyr Ser Gln Lys Phe

735022001040SEQLIST

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

<210> 122

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 122

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser	
1	5
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Phe Ser Asn Tyr	
	20
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val	
	35
Ala Thr Ile Asn Asn Gly Gly Ser Tyr Thr Tyr Tyr Ser Gln Lys Phe	
	50
Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr	
65	70
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys	
	85
Val Arg Arg Asp Tyr Gly Thr Ser Asp Phe Asp Tyr Trp Gly Gln Gly	
	100
Thr Leu Val Thr Val Ser Ser	
	115

<210> 123

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 123

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

735022001040SEQLIST

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

```

<210> 124

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 124

```

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

```

<210> 125

<211> 119

<212> PRT

<213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 125

```

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

```

<210> 126

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 126

```

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

```

735022001040SEQLIST

<210> 127
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 127
 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 Ser Ser Tyr
 20 25 30
 Trp Met Asn Trp Val Lys Gln Arg Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Tyr Pro Arg Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe
 50 55 60
 Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
 85 90 95
 Ala Arg Trp Leu Leu Arg Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ala
 115

<210> 128
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 128
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ala Phe Ser Ser Tyr
 20 25 30
 Trp Met Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Tyr Pro Arg Asp Gly Asp Thr Asn Tyr Asn Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80

735022001040SEQLIST

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

<210> 129
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 129
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Tyr
20 25 30
Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Tyr Pro Arg Asp Gly Asp Thr Asn Tyr Asn Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Trp Leu Leu Arg Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110
Thr Val Ser Ser
115

<210> 130
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

735022001040SEQLIST

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

<210> 131

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 131

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

<210> 132

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 132

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

<210> 133

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 133

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

<210> 134

735022001040SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 134

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

<210> 135
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 135

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

735022001040SEQLIST

100
 Thr Val Ser Ser
 115

<210> 136
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 136
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ala Phe Ser Ser Tyr
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Tyr Pro Arg Asp Gly Asp Thr Asn Tyr Asn Ala Pro Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Trp Leu Leu Arg Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 137
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 137
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ala Phe Ser Ser Tyr
 20 25 30
 Trp Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Tyr Pro Arg Asp Gly Asp Thr Asn Tyr Asn Pro Ser Leu

735022001040SEQLIST

50		55		60	
Lys	Ser	Arg	Val	Thr	Ile
65		70		75	
Leu	Lys	Leu	Ser	Ser	Val
		85		90	
Ala	Arg	Trp	Leu	Arg	Phe
	100		105		110
Thr	Val	Ser	Ser		
	115				

<210> 138
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 138	
Gln	Val
1	5
Ser	Val
	20
Trp	Met
	35
Gly	Glu
	50
Thr	Ser
65	70
Met	Gln
	85
Thr	Ile
	100
Thr	Val
	115

<210> 139
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 139	
Gln	Val

735022001040SEQLIST

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

<210> 140

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 140

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

<210> 141

<211> 116

<212> PRT

<213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 141

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

<210> 142

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 142

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

735022001040SEQLIST

<210> 143
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 143
 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 Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Asn Pro Arg Asp Gly Val Ser Asn Cys Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Ile Trp Glu Asp Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 144
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 144
 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 Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Asn Pro Arg Asp Gly Val Ser Asn Cys 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

735022001040SEQLIST

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

<210> 145
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 145
 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 Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Asn Pro Arg Asp Gly Val Ser Asn Cys Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Ile Trp Glu Asp Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 146
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 146
 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 Ser Tyr
 20 25 30

735022001040SEQLIST

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

<210> 147

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 147

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

<210> 148

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 148

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

<210> 149

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 149

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

<210> 150

735022001040SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 150

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

<210> 151
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 151

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

735022001040SEQLIST

100
 Leu Val Thr Val Ser Ser
 115

<210> 152
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 152
 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 Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Asp Pro Ser Asp Ser Tyr Thr Tyr 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 Ala Tyr Tyr Ser Asn Tyr Val Arg Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 153
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 153
 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 Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Asp Pro Ser Asp Ser Tyr Thr Tyr Tyr Asn Asp Ser Val

735022001040SEQLIST

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

<210> 154
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 154	
Gln	Val
1	5
Ser	Leu
	20
Trp	Met
	35
Gly	Glu
	50
Lys	Gly
65	70
Leu	Gln
	85
Ala	Ala
	100
Leu	Val
	115

<210> 155
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 155	
Glu	Val

735022001040SEQLIST

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

<210> 156

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 156

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

<210> 157

<211> 118

<212> PRT

<213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 157

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

<210> 158

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 158

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

735022001040SEQLIST

<210> 159
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 159
 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 Ser Tyr
 20 25 30
 Trp Met His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Asp Pro Ser Asp Ser Tyr Thr Tyr 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 Ala Tyr Tyr Ser Asn Tyr Val Arg Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 160
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 160
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Ala Phe Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Asn Pro Arg Asp Gly Val Ser Asn Cys Asn Glu Lys Phe
 50 55 60
 Thr Ser Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Asn Thr Ala Tyr
 65 70 75 80

735022001040SEQLIST

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

<210> 161

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 161

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

<210> 162

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 162

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 Ser Tyr
 20 25 30

735022001040SEQLIST

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

<210> 163

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 163

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

<210> 164

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 164

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

<210> 165

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 165

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

<210> 166

735022001040SEQLIST

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 166

```

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

```

<210> 167

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 167

```

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

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735022001040SEQLIST

100
 Thr Val Ser Ser
 115

<210> 168
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 168
 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 Ser Tyr
 20 25 30
 Trp Met His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Asn Pro Arg Asp Gly Val Ser Asn Cys Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Ile Trp Glu Asp Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 169
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 169
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Glu Ile Asn Pro Arg Asp Gly Val Ser Asn Cys Asn Ala Pro Val

735022001040SEQLIST

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

<210> 170

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 170

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

<210> 171

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 171

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg

735022001040SEQLIST

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> 172

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 172

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

<210> 173

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 173

Arg Ala Ser Glu Asn Val Asp Ser Tyr Gly Ile Ser Phe Met His			
1	5	10	15

<210> 174

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022001040SEQLIST

<400> 174

Lys Val Ser Asn Arg Phe Ser
1 5

<210> 175

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 175

Arg Ala Ser Asn Leu Glu Ser
1 5

<210> 176

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 176

Ser Gln Asn Thr His Val Pro Leu Thr
1 5

<210> 177

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 177

Gln Gln Ser Asn Glu Asp Pro Trp Thr
1 5

<210> 178

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 178

Gly	Tyr	Thr	Phe	Thr	Asp	Tyr	Asn	Ile	His
1				5					10

<210> 179

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 179

Gly	Phe	Thr	Phe	Ser	Asn	Tyr	Gly	Met	Ser
1				5					10

<210> 180

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 180

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

<210> 181

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 181

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

735022001040SEQLIST

<210> 182
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 182
 Gly Asn Tyr Leu Tyr Tyr Tyr Ala Met Asp Tyr
 1 5 10

<210> 183
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 183
 Tyr Tyr Arg Tyr Asp Ser Tyr Ala Met Asp Tyr
 1 5 10

<210> 184
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 184
 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Val Ser Ile Ser Cys
 20

<210> 185
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

735022001040SEQLIST

<223> Synthetic Construct

<400> 185

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

<210> 186

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 186

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

<210> 187

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 187

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

<210> 188

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 188

Gly	Val	Pro	Asp	Arg	Phe	Arg	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		

735022001040SEQLIST

<210> 189
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 189
 Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Arg Thr Asp Phe Thr
 1 5 10 15
 Leu Thr Ile Asn Pro Val Glu Ala Asp Asp Val Ala Thr Tyr Tyr Cys
 20 25 30

<210> 190
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 190
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Arg Ile Ser Cys Lys Ala Ser
 20 25

<210> 191
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 191
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ser
 20 25

<210> 192

735022001040SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 192
 Trp Val Lys Gln Ser Gln Gly Lys Ser Leu Glu Trp Ile Gly
 1 5 10

<210> 193
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 193
 Trp Val Arg Gln Ile Leu Asp Lys Arg Leu Glu Leu Val Ala
 1 5 10

<210> 194
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 194
 Tyr Asn Gln Lys Phe Gln Asn Lys Ala Thr Leu Thr Val Asp Asn Ser
 1 5 10 15
 Ser Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser
 20 25 30
 Ala Val Tyr Tyr Cys Ala Asn
 35

<210> 195
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>

735022001040SEQLIST

<223> Synthetic Construct

<400> 195

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

<210> 196

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 196

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

<210> 197

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 197

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

735022001040SEQLIST

<210> 198
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 198
 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 Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Phe Gln Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Arg Arg Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ser Gln Asn
 85 90 95
 Thr His Val Pro Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 199
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 199
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Val Ser Ile Ser Cys Ser Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Arg 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 Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys

735022001040SEQLIST

100

105

110

<210> 200
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 200

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

<210> 201
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 201

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

735022001040SEQLIST

				85					90					95			
Glu	Asp	Pro	Trp	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys			
				100				105					110				

<210> 202

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 202

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

<210> 203

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 203

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

735022001040SEQLIST

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

<210> 204

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 204

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

<210> 205

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 205

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

735022001040SEQLIST

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

<210> 206
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 206															
Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asp	Tyr
			20					25					30		
Asn	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Tyr	Ile	Tyr	Pro	Tyr	Asn	Gly	Asp	Thr	Gly	Tyr	Ala	Gln	Lys	Leu
	50					55				60					
Gln	Gly	Arg	Val	Thr	Met	Thr	Thr	Asp	Thr	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Gly	Asn	Tyr	Leu	Tyr	Tyr	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 207
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 207															
Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala

735022001040SEQLIST

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

<210> 208

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 208

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

<210> 209

<211> 120

<212> PRT

<213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 209

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

<210> 210

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 210

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

735022001040SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 211
 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
 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Thr Ile Asn Ser Asn Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Lys Tyr Tyr Arg Tyr Asp Ser Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

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

<220>
 <223> Synthetic Construct

<400> 212
 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
 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Leu Val
 35 40 45
 Ala Thr Ile Asn Ser Asn Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

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

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

<220>
 <223> Synthetic Construct

<400> 213
 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 Tyr Ser
 20 25 30
 Asp Gly Asn Thr Tyr Leu Asn Trp Phe Gln Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Arg Arg Leu Ile Tyr Lys Val Ser Asn Arg Asp Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gly
 85 90 95
 Thr His Trp Pro Pro
 100

<210> 214
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 214
 Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 215
 <211> 112

735022001040SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 215

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

<210> 216

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 216

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

735022001040SEQLIST

<210> 217
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 217
 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 Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Phe Gln Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Arg Arg Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ser Gln Asn
 85 90 95
 Thr His Val Pro Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 218
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 218
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Val Ser Ile Ser Cys Ser Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Arg 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 Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

735022001040SEQLIST

<210> 219
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 219
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Val Ser Ile Ser Cys Ser Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Ser Gln Asn
 85 90 95
 Thr His Val Pro Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Leu Lys
 100 105 110

<210> 220
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 220
 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
 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
 50 55 60
 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

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Ala Arg

<210> 221
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 221
 Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10 15

<210> 222
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 222
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Arg Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Asn Ile His Trp Val Lys Gln Ser Gln Gly Lys Ser Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Pro Tyr Asn Gly Asp Thr Gly Tyr Asn Gln Lys Phe
 50 55 60
 Gln Asn Lys Ala Thr Leu Thr Val Asp Asn Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Ala Asn Gly Asn Tyr Leu Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 223
 <211> 109
 <212> PRT
 <213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 223

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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
Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35           40           45
Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
 50           55           60
Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65           70           75           80
Met Glu Leu Arg Ser Leu Arg Ser Asp 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

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<210> 224

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 224

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

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735022001040SEQLIST

<210> 225
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 225
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Asn Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Tyr Ile Tyr Pro Tyr Asn Gly Asp Thr Gly Tyr Ala Gln Lys Leu
 50 55 60
 Gln Gly Arg Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Asn Gly Asn Tyr Leu Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 226
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022001040SEQLIST

Ala Asn Gly Asn Tyr Leu Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 227

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 227

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

<210> 228

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 228

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

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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	

<210> 229
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 229
 Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 1 5 10

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

<220>
 <223> Synthetic Construct

<400> 230
 Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Glu Asn Val Asp Ser Tyr
 20 25 30
 Gly Ile Ser Phe Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45
 Lys Leu Leu Ile Tyr Arg Ala Ser Asn Leu Glu Ser Gly Ile Pro Ala
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Arg Thr Asp Phe Thr Leu Thr Ile Asn
 65 70 75 80
 Pro Val Glu Ala Asp Asp Val Ala Thr Tyr Tyr Cys Gln Gln Ser Asn
 85 90 95
 Glu Asp Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 231
 <211> 106

735022001040SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 231

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> 232

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 232

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

735022001040SEQLIST

<210> 233
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 234
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022001040SEQLIST

<210> 235
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 236
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 236
 Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10 15

<210> 237
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022001040SEQLIST

<400> 237

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

<210> 238

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 238

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

<210> 239

<211> 120

<212> PRT

<213> Artificial Sequence

735022001040SEQLIST

<220>

<223> Synthetic Construct

<400> 239

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

<210> 240

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 240

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

735022001040SEQLIST

<210> 241
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 241
 ctccactcac ggcaaattca a 21

<210> 242
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 242
 gatgacaagc ttcccattct cg 22

<210> 243
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 243
 ccgtcagccg atttgctatc t 21

<210> 244
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 244
 acggcagaga ggaggttgac tt 22

<210> 245
 <211> 22

735022001040SEQLIST

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 245
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 ccattgaggt ggagagcttt ca 22

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 ggcaaacc ca aggtctacgt tc 22

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 tacctcattg gccagctgct t 21

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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

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<223> Xaa = D or E

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<223> Xaa = Any Amino Acid and up to 2 of them can be

present or absent

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<400> 252

Xaa Xaa Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr

1

5

10

15

Xaa Xaa Xaa