

SEQUENCE LISTING

<110> WuXi Biologics (Shanghai) CO., LTD.
WUXI BIOLOGICS (CAYMAN) INC.

<120> NOVEL BISPECIFIC POLYPEPTIDE COMPLEXES

<130> IEC180125

<160> 411

<170> PatentIn version 3.5

<210> 1

<211> 207

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 1

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

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<212> PRT

<213> artificial sequence

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

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Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Lys	Asn	Val	Phe	Pro	Pro	Glu
	115						120					125			
Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys
	130					135					140				
Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu
	145				150					155					160
Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Cys	Thr
				165					170					175	
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr
			180					185					190		
Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro
	195						200					205			
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn
	210					215					220				
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser
	225				230					235					240
Ala	Glu	Ala	Trp	Gly	Arg	Ala	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro
				245					250					255	
Cys	Pro	Ala	Pro	Glu	Ala	Ala	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
			260					265					270		
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
			275				280					285			
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
	290					295					300				
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
	305				310					315					320
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Ser	Val	Leu	Thr	Val	
				325					330					335	
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
			340					345						350	
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
		355					360					365			
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu
	370					375					380				
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
	385				390					395					400
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
				405					410					415	
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
			420					425					430		
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
		435					440					445			
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
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Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
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<210> 3

<211> 207

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 3

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

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

Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	
				325					330					335		
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	
			340					345					350			
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	
		355					360					365				
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	
	370					375					380					
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	
385				390						395					400	
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	
			405					410						415		
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	
		420						425					430			
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	
	435					440						445				
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	
	450					455					460					
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys						
465					470					475						

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

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

<210> 6
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Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Ala	Phe	Thr	Asp	Tyr
			20					25					30		
Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35				40						45			
Gly	Trp	Ile	Ser	Pro	Gly	Asn	Val	Asn	Thr	Lys	Tyr	Asn	Glu	Asn	Phe
	50					55					60				
Lys	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Ser	Thr	Ser	Thr	Ala	Tyr
65					70				75						80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Asp	Gly	Tyr	Ser	Leu	Tyr	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Leu	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro	Glu
		115					120					125			
Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys
	130					135					140				
Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu
145					150					155					160
Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Cys	Thr
			165						170					175	
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr
			180					185					190		
Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro
	195						200					205			
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Pro	Ser	Asn	Gln	Ile
	210					215					220				
Val	Ser	Ala	Glu	Ala	Trp	Gly	Arg	Ala	Ser	Asp	Lys	Thr	His	Thr	Cys
225					230					235					240
Pro	Pro	Cys	Pro	Ala	Pro	Glu	Ala	Ala	Gly	Gly	Pro	Ser	Val	Phe	Leu
			245						250					255	
Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu
			260					265					270		

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

<210> 7

<211> 457

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 7

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

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

<210> 8

<211> 242

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 8

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

Arg Ala

<210> 9
 <211> 442
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 9

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

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 435 440

<210> 10
 <211> 442
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 10

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

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 435 440

<210> 11
 <211> 228
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 11

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

<210> 12
 <211> 207
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 12

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

Lys	Ser	Ser	Asp	Lys	Ser	Val	Cys	Leu	Phe	Thr	Asp	Phe	Asp	Ser	Gln
130						135					140				
Thr	Gln	Val	Ser	Gln	Ser	Lys	Asp	Ser	Asp	Val	Tyr	Ile	Thr	Asp	Lys
145						150				155					160
Cys	Val	Leu	Asp	Met	Arg	Ser	Met	Asp	Phe	Lys	Ser	Asn	Ser	Ala	Val
				165					170					175	
Ala	Trp	Ser	Gln	Lys	Ser	Asp	Phe	Ala	Cys	Ala	Asn	Ala	Phe	Gln	Asn
			180					185					190		
Ser	Ile	Ile	Pro	Glu	Asp	Thr	Phe	Phe	Pro	Ser	Pro	Glu	Ser	Ser	
	195						200					205			

<210> 13
 <211> 475
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 13

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

Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu
370						375					380				
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
385					390					395					400
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
			405					410						415	
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
			420					425					430		
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
		435					440					445			
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
	450					455					460				
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
465					470					475					

<210> 14
 <211> 207
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 14

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

<210> 15
 <211> 475
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 15

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

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

<210> 16
 <211> 207
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 16

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	Asn	Ser
			20					25					30		

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

<210> 17
 <211> 475
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 17

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

Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr		
		275					280					285					
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn		
	290					295					300						
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg		
305					310					315					320		
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val		
				325					330						335		
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser		
			340					345					350				
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys		
		355					360						365				
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu		
	370					375					380						
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe		
385					390					395					400		
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu		
				405					410						415		
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe		
			420					425					430				
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly		
			435				440					445					
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr		
	450					455					460						
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys							
465					470					475							

<210> 18
 <211> 207
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 18

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

<210> 19
 <211> 207
 <212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 19

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

<210> 20

<211> 475

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 20

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

Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn
	210					215					220				
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser
225					230				235						240
Ala	Glu	Ala	Trp	Gly	Arg	Ala	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro
				245				250						255	
Cys	Pro	Ala	Pro	Glu	Ala	Ala	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
			260				265						270		
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
	275					280					285				
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
	290					295				300					
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
305					310				315						320
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
				325				330						335	
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
			340				345						350		
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
	355					360					365				
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu
	370					375				380					
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
385				390				395							400
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
			405				410						415		
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
		420					425					430			
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
	435					440					445				
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
	450					455				460					
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
465					470					475					

<210> 21
 <211> 472
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 21

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

Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser	Arg	Tyr		
			180					185					190				
Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro		
		195					200					205					
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn		
	210					215					220						
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser		
225					230					235					240		
Ala	Glu	Ala	Trp	Gly	Arg	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala		
				245					250						255		
Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro		
			260					265						270			
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val		
	275						280					285					
Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val		
	290					295					300						
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln		
305					310					315					320		
Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln		
				325					330					335			
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly		
			340					345					350				
Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro		
		355					360						365				
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr		
	370					375					380						
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser		
385					390					395					400		
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr		
				405					410					415			
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr		
			420					425					430				
Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe		
			435				440					445					
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys		
	450					455					460						
Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys										
465					470												

<210> 22

<211> 475

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 22

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

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

<210> 23
 <211> 213
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 23

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

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

<210> 24
 <211> 446
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 24

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

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

<210> 25
 <211> 472
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 25

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

Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly
			340					345					350		
Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
		355					360					365			
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Cys	Gln	Glu	Glu	Met	Thr
	370					375					380				
Lys	Asn	Gln	Val	Ser	Leu	Trp	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
385					390					395					400
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
			405						410					415	
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr
			420					425					430		
Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe
		435					440					445			
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys
	450					455					460				
Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys								
465					470										

<210> 26
 <211> 443
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 26

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

Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
305					310					315					320
Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
				325					330						335
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Cys	Thr	Leu	Pro	Pro	Ser	Gln	Glu
			340					345						350	
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Ser	Cys	Ala	Val	Lys	Gly	Phe
		355					360					365			
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
	370					375					380				
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
385					390					395					400
Phe	Leu	Val	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly
				405					410					415	
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
			420					425					430		
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys					
		435					440								

<210> 27
 <211> 667
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 27

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

Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
305					310					315					320
Leu	Thr	Thr	Ala	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
				325					330						335
Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala
				340				345					350		
Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys	Leu
		355					360					365			
Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly
	370					375					380				
Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser
385					390					395					400
Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu
				405					410						415
Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr
				420				425					430		
Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro
		435					440					445			
Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
	450					455					460				
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
465					470					475					480
Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn
				485					490						495
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
			500					505					510		
Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
		515					520					525			
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
	530					535					540				
Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
545					550					555					560
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Cys	Thr	Leu	Pro	Pro	Ser	Gln	Glu
				565				570						575	
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Ser	Cys	Ala	Val	Lys	Gly	Phe
			580					585					590		
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
		595					600					605			
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
	610					615				620					
Phe	Leu	Val	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly
625					630					635					640
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
				645					650					655	
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys					
			660					665							

<210> 28

<211> 246

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 28

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

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

<210> 29
 <211> 248
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 29

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

<210> 30

<211> 246
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 30
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Ala Phe Thr Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Ile Ser Pro Gly Asn Val Asn Thr Lys Tyr Asn Glu Asn Phe
 50 55 60
 Lys Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gly Tyr Ser Leu Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
 115 120 125
 Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
 130 135 140
 Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu
 145 150 155 160
 Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Cys Thr
 165 170 175
 Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Gln Asp Ser Arg Tyr
 180 185 190
 Ala Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro
 195 200 205
 Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn
 210 215 220
 Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser
 225 230 235 240
 Ala Glu Ala Trp Gly Arg
 245

<210> 31
 <211> 248
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 31
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Ala Phe Thr Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Ile Ser Pro Gly Asn Val Asn Thr Lys Tyr Asn Glu Asn Phe
 50 55 60
 Lys Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gly Tyr Ser Leu Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
 115 120 125
 Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
 130 135 140

Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu
145					150					155					160
Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Cys	Thr
				165					170					175	
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser	Arg	Tyr
			180					185					190		
Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro
		195					200					205			
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn
	210					215					220				
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser
225					230					235					240
Ala	Glu	Ala	Trp	Gly	Arg	Ala	Asp								
				245											

<210> 32
 <211> 116
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 32

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

<210> 33
 <211> 116
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 33

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

<210> 34

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<211> 116
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 34
Glu Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln
1          5          10          15
Lys Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val
          20          25          30
Glu Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Cys
          35          40          45
Thr Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Gln Asp Ser Arg
          50          55          60
Tyr Ala Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn
65          70          75          80
Pro Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu
          85          90          95
Asn Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val
          100          105          110
Ser Ala Glu Ala
          115

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<210> 35
<211> 116
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 35
Glu Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln
1          5          10          15
Lys Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val
          20          25          30
Glu Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Cys
          35          40          45
Thr Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Ala Asp Ser Arg
          50          55          60
Tyr Ala Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn
65          70          75          80
Pro Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu
          85          90          95
Asn Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val
          100          105          110
Ser Ala Glu Ala
          115

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<210> 36
<211> 116
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 36
Glu Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln
1          5          10          15
Lys Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val
          20          25          30
Glu Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Cys
          35          40          45
Thr Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Glu Asp Ser Arg
          50          55          60
Tyr Ala Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn
65          70          75          80

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

<210> 37
 <211> 102
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 37

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

<210> 38
 <211> 102
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 38

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

<210> 39
 <211> 102
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 39

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

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

<210> 40
 <211> 102
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 40

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

<210> 41
 <211> 98
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 41

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

<210> 42
 <211> 87
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 42

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

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

<210> 43
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 <220>
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 <400> 43

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

<210> 44
 <211> 87
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 44

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

<210> 45
 <211> 87
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 45

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

Ala Cys Ala Asn Ala Phe Ala Asn Ser Ile Ile Pro Glu Asp Thr Phe
65 70 75 80
Phe Pro Ser Pro Glu Ser Ser
85

<210> 46
<211> 87
<212> PRT
<213> artificial sequence
<220>
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<400> 46

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

<210> 47
<211> 87
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 47

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

<210> 48
<211> 87
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 48

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

<210> 49
 <211> 10
 <212> PRT
 <213> artificial sequence
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 <223> synthetic
 <400> 49
 Ser Ser Ala Ser Lys Asn Val Phe Pro Pro
 1 5 10

<210> 50
 <211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 50
 Leu Glu Asp Leu Lys Asn Val Phe Pro Pro
 1 5 10

<210> 51
 <211> 9
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 51
 Lys Arg Thr Val Ala Ala Pro Asp Pro
 1 5

<210> 52
 <211> 9
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 52
 Lys Pro Asp Ile Gln Asn Pro Asp Pro
 1 5

<210> 53
 <211> 23
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 53
 Trp Gly Arg Ala Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 1 5 10 15
 Pro Glu Ala Ala Gly Gly Pro
 20

<210> 54
 <211> 20
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 54
 Trp Gly Arg Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
 1 5 10 15
 Leu Gly Gly Pro
 20

<210> 55
 <211> 17
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 55
 Arg Val Thr Val Glu Pro Arg Ser Gln Pro His Thr Lys Pro Ser Val
 1 5 10 15
 Phe

<210> 56
 <211> 13
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 56
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 1 5 10

<210> 57
 <211> 15
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 57
 Arg Val Thr Val Glu Pro Arg Ser Gln Pro His Thr Lys Pro Ser
 1 5 10 15

<210> 58
 <211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 58
 Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe
 1 5 10

<210> 59
 <211> 18
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 59
 Thr Leu Val Val Thr Asp Lys Gln Leu Asp Ala Asp Val Ser Pro Lys
 1 5 10 15
 Pro Thr

<210> 60
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 60
 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
 1 5 10

<210> 61
 <211> 8
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 61
 Glu Ser Lys Tyr Gly Pro Pro Cys
 1 5

<210> 62
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 62
 Pro Pro Ile Lys Thr Asp Val Ile Thr Met Asp
 1 5 10

<210> 63
 <211> 230
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 63
 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 Asn Ser
 20 25 30
 Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Gln Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Thr Gln
 85 90 95
 Ser His Thr Leu Arg Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Pro Thr Gly Val Gly Gly Thr Pro Phe Pro Ser Leu Ala Pro Pro Ile
 115 120 125
 Met Leu Leu Val Asp Gly Lys Gln Gln Met Val Val Val Cys Leu Val
 130 135 140
 Leu Asp Val Ala Pro Pro Gly Leu Asp Ser Pro Ile Trp Phe Ser Ala
 145 150 155 160
 Gly Gln Gly Ser Ala Leu Asp Ala Phe Thr Tyr Gly Pro Ser Pro Ala
 165 170 175
 Thr Asp Gly Thr Trp Thr Asn Leu Ala His Leu Ser Leu Pro Ser Glu
 180 185 190
 Glu Leu Ala Ser Trp Glu Pro Leu Val Cys His Thr Gly Pro Gly Ala
 195 200 205
 Glu Gly His Ser Arg Ser Thr Gln Pro Met His Leu Ser Gly Glu Ala
 210 215 220
 Ser Thr Ala Arg Thr Cys
 225 230

<210> 64
 <211> 229
 <212> PRT
 <213> artificial sequence
 <220>

<223> synthetic

<400> 64

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

<211> 475

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 65

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

Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro
	195						200					205			
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn
	210					215					220				
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser
225					230					235					240
Ala	Glu	Ala	Trp	Gly	Arg	Ala	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro
				245					250					255	
Cys	Pro	Ala	Pro	Glu	Ala	Ala	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
			260					265					270		
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
	275						280					285			
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
	290					295					300				
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
305					310					315					320
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
				325					330					335	
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
			340					345					350		
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
	355						360					365			
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu
	370					375					380				
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
385					390					395					400
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
			405					410						415	
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
			420					425					430		
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
	435						440					445			
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
	450					455					460				
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
465					470					475					

<210> 66

<211> 229

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 66

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

Gly	Gln	Gly	Ser	Ala	Leu	Asp	Ala	Phe	Thr	Cys	Gly	Pro	Ser	Pro	Ala
				165					170					175	
Thr	Asp	Gly	Thr	Trp	Thr	Asn	Leu	Ala	His	Leu	Ser	Leu	Pro	Ser	Glu
			180					185					190		
Glu	Leu	Ala	Ser	Trp	Glu	Pro	Leu	Val	Cys	His	Thr	Gly	Pro	Gly	Ala
		195					200					205			
Glu	Gly	His	Ser	Arg	Ser	Thr	Gln	Pro	Met	His	Leu	Ser	Gly	Glu	Ala
	210					215					220				
Ser	Thr	Ala	Arg	Thr											
225															

<210> 67
 <211> 475
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 67

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

Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu
370						375					380				
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
385					390					395					400
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
			405					410						415	
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
			420					425					430		
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
		435					440					445			
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
	450					455					460				
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
465					470					475					

<210> 68
 <211> 229
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 68

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

<210> 69
 <211> 475
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 69

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

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

<210> 70
 <211> 475
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 70

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

<210> 71
 <211> 229
 <212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 71

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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 Asn Ser
      20      25      30
Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
      35      40      45
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Gln Ser Gly Val
      50      55      60
Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
      65      70      75      80
Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Thr Gln
      85      90      95
Ser His Thr Leu Arg Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
      100      105      110
Pro Thr Gly Val Gly Gly Thr Pro Phe Pro Cys Leu Ala Pro Pro Ile
      115      120      125
Met Leu Leu Val Asp Gly Lys Gln Gln Met Val Val Val Cys Leu Val
      130      135      140
Leu Asp Val Ala Pro Pro Gly Leu Asp Ser Pro Ile Trp Phe Ser Ala
      145      150      155      160
Gly Gln Gly Ser Ala Leu Asp Ala Phe Thr Tyr Gly Pro Ser Pro Ala
      165      170      175
Thr Asp Gly Thr Trp Thr Asn Leu Ala His Leu Ser Leu Pro Ser Glu
      180      185      190
Glu Leu Ala Ser Trp Glu Pro Leu Val Cys His Thr Gly Pro Gly Ala
      195      200      205
Glu Gly His Ser Arg Ser Thr Gln Pro Met His Leu Ser Gly Glu Ala
      210      215      220
Ser Thr Ala Arg Thr
225
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<210> 72

<211> 475

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 72

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

<210> 73

<211> 475

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 73

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

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

<210> 74
 <211> 229
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 74

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

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

<210> 75
 <211> 475
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 75

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

Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	
				325					330					335		
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	
			340					345					350			
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	
		355					360					365				
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	
	370					375					380					
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	
385				390						395					400	
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	
			405					410						415		
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	
		420						425					430			
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	
	435					440						445				
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	
	450					455					460					
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys						
465					470					475						

<210> 76
 <211> 229
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 76

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

<210> 77
 <211> 229
 <212> PRT
 <213> artificial sequence
 <220>

<223> synthetic

<400> 77

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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 Asn Ser
      20      25      30
Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
      35      40      45
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Gln Ser Gly Val
      50      55      60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65      70      75      80
Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Thr Gln
      85      90      95
Ser His Thr Leu Arg Thr Phe Gly Gly Thr Lys Val Glu Ile Lys
      100      105      110
Pro Thr Gly Val Gly Gly Thr Pro Phe Pro Ser Leu Ala Pro Pro Cys
      115      120      125
Met Leu Leu Val Asp Gly Lys Gln Gln Met Val Val Val Cys Leu Val
130      135      140
Leu Asp Val Ala Pro Pro Gly Leu Asp Ser Pro Ile Trp Phe Ser Ala
145      150      155      160
Gly Gln Gly Ser Ala Leu Asp Ala Phe Thr Tyr Gly Pro Ser Pro Ala
      165      170      175
Thr Asp Gly Thr Trp Thr Asn Leu Ala His Leu Ser Leu Pro Ser Glu
      180      185      190
Glu Leu Ala Ser Trp Glu Pro Leu Val Cys His Thr Gly Pro Gly Ala
      195      200      205
Glu Gly His Ser Arg Ser Thr Gln Pro Met His Leu Ser Gly Glu Ala
210      215      220
Ser Thr Ala Arg Thr
225
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<210> 78

<211> 475

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 78

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

Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro
	195						200					205			
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn
	210					215					220				
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser
225					230					235					240
Ala	Glu	Ala	Trp	Gly	Arg	Ala	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro
				245					250					255	
Cys	Pro	Ala	Pro	Glu	Ala	Ala	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
			260					265					270		
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
		275					280					285			
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
	290					295					300				
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
305					310					315					320
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
				325					330					335	
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
			340					345					350		
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
		355					360					365			
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu
	370					375					380				
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
385					390					395					400
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
			405					410						415	
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
			420					425					430		
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
		435					440					445			
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
	450					455					460				
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
465					470					475					

<210> 79

<211> 476

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 79

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

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

<210> 80

<211> 476

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 80

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

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

<210> 81
 <211> 8
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 81
 Pro Thr Gly Val Gly Gly Thr Pro
 1 5

<210> 82
 <211> 109
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 82
 Phe Pro Ser Leu Ala Pro Pro Ile Met Leu Leu Val Asp Gly Lys Gln
 1 5 10 15

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

<210> 83
 <211> 109
 <212> PRT
 <213> artificial sequence

<220>
 <223> synthetic
 <400> 83

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

<210> 84
 <211> 116
 <212> PRT
 <213> artificial sequence

<220>
 <223> synthetic
 <400> 84

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

<210> 85
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>

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<223>  synthetic
<400>  85
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 Asn Ser
      20      25      30
Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
      35      40      45
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Gln Ser Gly Val
      50      55      60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
      65      70      75      80
Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Thr Gln
      85      90      95
Ser His Thr Leu Arg Thr Phe Gly Gly Thr Lys Val Glu Ile Glu
      100      105      110
Pro Arg Ser Gln Pro His Thr Lys Pro Ser Val Phe Val Met Lys Gln
      115      120      125
Gly Thr Asn Val Ala Cys Leu Val Lys Glu Phe Tyr Pro Lys Asp Ile
      130      135      140
Arg Ile Asn Leu Val Ser Ser Lys Lys Ile Thr Glu Phe Asp Pro Ala
      145      150      155      160
Ile Val Ile Ser Pro Ser Gly Lys Tyr Asn Ala Val Lys Leu Gly Lys
      165      170      175
Tyr Glu Asp Ser Asn Ser Val Thr Cys Ser Val Gln His Asp Gln Lys
      180      185      190
Thr Val His Ser Thr Asp Phe Glu
      195      200

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<210>  86
<211>  455
<212>  PRT
<213>  artificial sequence
<220>
<223>  synthetic
<400>  86
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1      5      10      15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Ala Phe Thr Asp Tyr
      20      25      30
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
      35      40      45
Gly Trp Ile Ser Pro Gly Asn Val Asn Thr Lys Tyr Asn Glu Asn Phe
      50      55      60
Lys Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
      65      70      75      80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
      85      90      95
Ala Arg Asp Gly Tyr Ser Leu Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly
      100      105      110
Thr Leu Val Thr Val Thr Asp Lys Gln Leu Asp Ala Asp Val Ser Pro
      115      120      125
Lys Pro Thr Ile Phe Leu Pro Ser Ile Ala Glu Thr Lys Leu Gln Lys
      130      135      140
Ala Gly Thr Tyr Leu Cys Leu Leu Glu Lys Phe Phe Pro Asp Val Ile
      145      150      155      160
Lys Ile His Trp Gln Glu Lys Lys Ser Asn Thr Ile Leu Gly Ser Gln
      165      170      175
Glu Gly Asn Thr Met Lys Thr Gln Asp Thr Tyr Met Lys Phe Ser Trp
      180      185      190
Leu Thr Val Pro Glu Glu Ser Leu Asp Lys Glu His Arg Cys Ile Val
      195      200      205
Arg His Glu Asn Asn Lys Asn Gly Val Asp Gln Glu Ile Ile Phe Pro
      210      215      220

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

<210> 87
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 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 87
 Gln Ser Gly Arg
 1

<210> 88
 <211> 8
 <212> PRT
 <213> Homo sapiens
 <400> 88
 Gln Pro Ala Leu Asn Asp Ser Arg
 1 5

<210> 89
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 89
 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 Asn Ser
 20 25 30
 Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Gln Ser Gly Val
 50 55 60

Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr
65					70					75					80
Ile	Ser	Ser	Leu	Gln	Ala	Glu	Asp	Val	Ala	Val	Tyr	Tyr	Cys	Thr	Gln
				85					90					95	
Ser	His	Thr	Leu	Arg	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Glu
			100				105						110		
Pro	Arg	Ser	Gln	Pro	His	Thr	Lys	Pro	Ser	Val	Phe	Val	Met	Lys	Cys
		115					120					125			
Gly	Thr	Asn	Val	Ala	Cys	Leu	Val	Lys	Glu	Phe	Tyr	Pro	Lys	Asp	Ile
	130					135					140				
Arg	Ile	Asn	Leu	Val	Ser	Ser	Lys	Lys	Ile	Thr	Glu	Phe	Asp	Pro	Ala
145					150					155					160
Ile	Val	Ile	Ser	Pro	Ser	Gly	Lys	Tyr	Asn	Ala	Val	Lys	Leu	Gly	Lys
			165						170					175	
Tyr	Glu	Asp	Ser	Asn	Ser	Val	Thr	Cys	Ser	Val	Gln	His	Asp	Gln	Lys
			180					185					190		
Thr	Val	His	Ser	Thr	Asp	Phe	Glu								
		195					200								

<210> 90
 <211> 455
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 90

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

Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
				325					330						335
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
				340					345						350
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys
				355					360						365
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
				370					375						380
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410						415
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
				420					425						430
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
				435					440						445
Leu	Ser	Leu	Ser	Pro	Gly	Lys									
				450											455

<210> 91
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 91

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

<210> 92
 <211> 455
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 92

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

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

<210> 93
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 93

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

<210> 94
 <211> 455
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 94

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

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

<210> 95

<211> 200

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 95

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

<210> 96

<211> 455
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 96

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

<210> 97
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 97

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

<210> 98
 <211> 455
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 98

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

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

<210> 99

<211> 455

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 99

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

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

<210> 100
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 100

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

Arg	Ile	Asn	Leu	Val	Ser	Ser	Lys	Lys	Ile	Thr	Glu	Phe	Asp	Pro	Ala
145					150					155					160
Ile	Val	Ile	Ser	Pro	Ser	Gly	Lys	Tyr	Asn	Ala	Val	Lys	Leu	Gly	Lys
				165					170						175
Tyr	Glu	Asp	Ser	Asn	Ser	Val	Thr	Cys	Ser	Val	Gln	His	Asp	Gln	Lys
			180					185					190		
Thr	Val	His	Ser	Thr	Asp	Cys	Glu								
		195					200								

<210> 101
 <211> 455
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 101

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

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

<210> 102
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 102

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

<210> 103
 <211> 8
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 103

Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys
1				5			

<210> 104
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 104

Phe	Glu	Val	Lys	Thr	Asp	Ser	Thr	Asp	His	Val
1				5					10	

<210> 105
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 105

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

<210> 106
 <211> 455
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 106

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

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

<210> 107

<211> 200

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 107

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

Ile	Val	Ile	Ser	Pro	Ser	Gly	Lys	Tyr	Asn	Ala	Val	Lys	Leu	Gly	Lys
				165					170					175	
Tyr	Glu	Asp	Ser	Asn	Ser	Val	Thr	Cys	Ser	Val	Gln	His	Asp	Asn	Lys
			180					185					190		
Thr	Val	His	Ser	Thr	Asp	Phe	Glu								
		195					200								

<210> 108
 <211> 455
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 108

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

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

<210> 109
 <211> 228
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 109

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

<210> 110
 <211> 436
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 110

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

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

<210> 111

<211> 228

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 111

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

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

<210> 112

<211> 436

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 112

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

Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn
290						295					300				
Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro
305					310					315					320
Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln
				325					330					335	
Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val
			340					345					350		
Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val
		355					360					365			
Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro
370					375						380				
Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr
385					390					395					400
Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val
				405					410					415	
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu
			420					425					430		
Ser	Pro	Gly	Lys												
		435													

<210> 113
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 113

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

<210> 114
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 114

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

<210> 115
 <211> 79
 <212> PRT

<213> artificial sequence
 <220>
 <223> synthetic
 <400> 115
 Ser Val Phe Val Met Lys Asn Gly Thr Asn Val Ala Cys Leu Val Lys
 1 5 10 15
 Glu Phe Tyr Pro Lys Asp Ile Arg Ile Asn Leu Val Ser Ser Lys Lys
 20 25 30
 Ile Thr Glu Phe Asp Pro Ala Ile Val Ile Ser Pro Ser Gly Lys Tyr
 35 40 45
 Asn Ala Val Lys Leu Gly Lys Tyr Glu Asp Ser Asn Ser Val Thr Cys
 50 55 60
 Ser Val Gln His Asp Asn Lys Thr Val His Ser Thr Asp Phe Glu
 65 70 75

<210> 116
 <211> 79
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 116
 Ser Val Phe Val Met Lys Gln Gly Thr Asn Val Ala Cys Leu Val Lys
 1 5 10 15
 Glu Phe Tyr Pro Lys Asp Ile Arg Ile Asn Leu Val Ser Ser Lys Lys
 20 25 30
 Ile Thr Glu Phe Asp Pro Ala Ile Val Ile Ser Pro Ser Gly Lys Tyr
 35 40 45
 Asn Ala Val Lys Leu Gly Lys Tyr Glu Asp Ser Asn Ser Val Thr Cys
 50 55 60
 Ser Val Gln His Asp Gln Lys Thr Val His Ser Thr Asp Phe Glu
 65 70 75

<210> 117
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 117
 Ser Ser Ala Ser Leu Asp Ala Asp Val Ser Pro
 1 5 10

<210> 118
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 118
 Thr Asp Lys Gln Leu Asp Ala Asp Val Ser Pro
 1 5 10

<210> 119
 <211> 9
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 119
 Pro Arg Ser Gln Pro His Thr Lys Pro
 1 5

<210> 120

<211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 120
 Glu Pro Arg Ser Gln Pro His Thr Lys Pro
 1 5 10

<210> 121
 <211> 23
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 121
 Pro Pro Ile Lys Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 1 5 10 15
 Pro Glu Ala Ala Gly Gly Pro
 20

<210> 122
 <211> 20
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 122
 Pro Pro Ile Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
 1 5 10 15
 Leu Gly Gly Pro
 20

<210> 123
 <211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 123
 Ser Ser Arg Ser Gln Pro His Thr Lys Pro
 1 5 10

<210> 124
 <211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 124
 Glu Pro Arg Ser Gln Pro His Thr Lys Pro
 1 5 10

<210> 125
 <211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 125
 Lys Asp Lys Leu Asp Ala Asp Val Ser Pro
 1 5 10

<210> 126

<211> 10
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 126
Thr Asp Lys Leu Asp Ala Asp Val Ser Pro
1 5 10

<210> 127
<211> 23
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 127
Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1 5 10 15
Pro Glu Ala Ala Gly Gly Pro
20

<210> 128
<211> 20
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 128
Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
1 5 10 15
Leu Gly Gly Pro
20

<210> 129
<211> 10
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 129
Ser Ser Ala Ser Ile Gln Asn Pro Asp Pro
1 5 10

<210> 130
<211> 10
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 130
Ser Ser Pro Asp Ile Gln Asn Pro Asp Pro
1 5 10

<210> 131
<211> 8
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 131
Arg Thr Val Ala Ala Gly Thr Pro
1 5

<210> 132

<211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 132
 Ser Ser Ala Ser Gly Val Gly Gly Thr Pro
 1 5 10

<210> 133
 <211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 133
 Ser Ser Pro Thr Gly Val Gly Gly Thr Pro
 1 5 10

<210> 134
 <211> 19
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 134
 Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
 1 5 10 15
 Gly Gly Pro

<210> 135
 <211> 17
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 135
 Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly
 1 5 10 15
 Pro

<210> 136
 <211> 242
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 136
 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 Asn Ser
 20 25 30
 Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Gln Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Thr Gln
 85 90 95
 Ser His Thr Leu Arg Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

Leu	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro	Glu	Val	Ala	Val	Phe	Glu
		115					120					125			
Pro	Cys	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys	Ala	Thr	Leu	Val	Cys
	130					135					140				
Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu	Leu	Ser	Trp	Trp	Val
145					150					155					160
Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	Pro	Gln	Pro	Leu
				165					170					175	
Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser	Arg	Tyr	Ala	Leu	Ser	Ser	Arg
			180					185					190		
Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	Arg	Asn	His	Phe	Arg
	195						200					205			
Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	Asp	Glu	Trp	Thr	Gln
	210					215					220				
Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	Ala	Glu	Ala	Trp	Gly
225					230					235					240
Arg	Ala														

<210> 137
 <211> 464
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 137

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

Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val
305					310					315					320
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr
				325				330						335	
Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr
			340					345					350		
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu
		355					360					365			
Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys
	370					375					380				
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser
385					390					395					400
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp
			405						410					415	
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser
			420					425					430		
Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala
		435					440					445			
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys
	450					455					460				

<210> 138

<211> 464

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 138

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

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

<210> 139

<211> 242

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 139

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

<210> 140

<211> 19
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 140
 Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
 1 5 10 15
 Gly Gly Pro

<210> 141
 <211> 17
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 141
 Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly
 1 5 10 15
 Pro

<210> 142
 <211> 16
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 142
 Thr Leu Val Val Thr Asp Lys Gln Leu Asp Ala Asp Val Ser Pro Lys
 1 5 10 15

<210> 143
 <211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 143
 Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe
 1 5 10

<210> 144
 <211> 15
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 144
 Leu Val Thr Val Ser Ser Ala Ser Lys Asn Val Phe Pro Pro Glu
 1 5 10 15

<210> 145
 <211> 15
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 145
 Leu Val Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
 1 5 10 15

<210> 146

<211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 146
 Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Asp Pro Ala
 1 5 10

<210> 147
 <211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 147
 Lys Val Glu Ile Lys Pro Asp Ile Gln Asn Pro Asp Pro Ala
 1 5 10

<210> 148
 <211> 15
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 148
 Leu Val Thr Val Ser Ser Ala Ser Ile Gln Asn Pro Asp Pro Ala
 1 5 10 15

<210> 149
 <211> 15
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 149
 Leu Val Thr Val Ser Ser Pro Asp Ile Gln Asn Pro Asp Pro Ala
 1 5 10 15

<210> 150
 <211> 16
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 150
 Lys Val Glu Ile Lys Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
 1 5 10 15

<210> 151
 <211> 131
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 151
 Lys Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe
 1 5 10 15
 Glu Pro Ser Glu Cys Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val
 20 25 30
 Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp
 35 40 45
 Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro
 50 55 60

Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser	Arg	Tyr	Ala	Leu	Ser	Ser
65					70					75					80
Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	Arg	Asn	His	Phe
				85					90					95	
Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	Asp	Glu	Trp	Thr
			100					105					110		
Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	Ala	Glu	Ala	Trp
		115					120					125			
Gly	Arg	Ala													
	130														

<210> 152
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 152

Trp	Gly	Arg	Ala	Ser	Asp	Lys	Thr	His	Thr	Cys
1				5					10	

<210> 153
 <211> 8
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 153

Trp	Gly	Arg	Tyr	Gly	Pro	Pro	Cys
1				5			

<210> 154
 <211> 7
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 154
 Ser Asp Lys Thr His Thr Cys
 1 5

<210> 155
 <211> 5
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 155

Tyr	Gly	Pro	Pro	Cys
1				5

<210> 156
 <211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 156

Lys	Val	Glu	Ile	Lys	Pro	Thr	Gly	Val	Gly	Gly	Thr	Pro	Phe
1				5					10				

<210> 157
 <211> 16
 <212> PRT

<213> artificial sequence
<220>
<223> synthetic
<400> 157
Leu Val Thr Val Ser Ser Ala Ser Leu Asp Ala Asp Val Ser Pro Lys
1 5 10 15

<210> 158
<211> 16
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 158
Leu Val Thr Val Thr Asp Lys Gln Leu Asp Ala Asp Val Ser Pro Lys
1 5 10 15

<210> 159
<211> 17
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 159
Lys Val Glu Ile Lys Pro Arg Ser Gln Pro His Thr Lys Pro Ser Val
1 5 10 15
Phe

<210> 160
<211> 17
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 160
Lys Val Glu Ile Glu Pro Arg Ser Gln Pro His Thr Lys Pro Ser Val
1 5 10 15
Phe

<210> 161
<211> 15
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 161
Leu Val Thr Val Ser Ser Arg Ser Gln Pro His Thr Lys Pro Ser
1 5 10 15

<210> 162
<211> 15
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 162
Leu Val Thr Val Glu Pro Arg Ser Gln Pro His Thr Lys Pro Ser
1 5 10 15

<210> 163
<211> 18
<212> PRT

<213> artificial sequence
<220>
<223> synthetic
<400> 163
Lys Val Glu Ile Lys Asp Lys Gln Leu Asp Ala Asp Val Ser Pro Lys
1 5 10 15
Pro Thr

<210> 164
<211> 18
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 164
Lys Val Glu Ile Thr Asp Lys Gln Leu Asp Ala Asp Val Ser Pro Lys
1 5 10 15
Pro Thr

<210> 165
<211> 11
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 165
Pro Pro Ile Lys Ser Asp Lys Thr His Thr Cys
1 5 10

<210> 166
<211> 8
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 166
Pro Pro Ile Tyr Gly Pro Pro Cys
1 5

<210> 167
<211> 11
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 167
Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys
1 5 10

<210> 168
<211> 8
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 168
Glu Ser Lys Tyr Gly Pro Pro Cys
1 5

<210> 169
<211> 14
<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 169

Lys Val Glu Ile Lys Arg Thr Val Ala Ala Gly Thr Pro Phe
1 5 10

<210> 170

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 170

Leu Val Thr Val Ser Ser Ala Ser Lys Asn Val Phe Pro Pro Glu
1 5 10 15

<210> 171

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 171

Leu Val Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
1 5 10 15

<210> 172

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 172

Leu Val Thr Val Ser Ser Ala Ser Gly Val Gly Gly Thr Pro Phe
1 5 10 15

<210> 173

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 173

Leu Val Thr Val Ser Ser Pro Thr Gly Val Gly Gly Thr Pro Phe
1 5 10 15

<210> 174

<211> 16

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 174

Lys Val Glu Ile Lys Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
1 5 10 15

<210> 175

<211> 16

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 175

Lys Val Glu Ile Lys Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
 1 5 10 15

<210> 176
 <211> 96
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 176

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

<210> 177
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 177

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

Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
	275						280					285			
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
	290					295					300				
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
305					310					315					320
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
				325					330					335	
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
		340						345					350		
Ser	Leu	Ser	Pro	Gly	Lys										
	355														

<210> 178
 <211> 96
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 178

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

<210> 179
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 179

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

Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn		
		195					200					205					
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp		
	210					215					220						
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro		
225					230					235					240		
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu		
				245					250					255			
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn		
			260					265					270				
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile		
		275					280					285					
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr		
	290					295					300						
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys		
305					310					315					320		
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys		
				325					330					335			
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu		
			340					345					350				
Ser	Leu	Ser	Pro	Gly	Lys												
		355															

<210> 180

<211> 344

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 180

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

Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	
		275						280					285			
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	
		290					295				300					
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	
305					310					315					320	
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	
				325					330					335		
Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys									
			340													

<210> 181
 <211> 344
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 181

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

<210> 182

<211> 340
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 182

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

<210> 183
 <211> 131
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 183

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

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

<210> 184
 <211> 325
 <212> PRT
 <213> artificial sequence

<220>
 <223> synthetic
 <400> 184

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

<210> 185

<211> 325
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 185
 Ser Ser Pro Asp Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg
 1 5 10 15
 Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp
 20 25 30
 Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr
 35 40 45
 Asp Lys Cys Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser
 50 55 60
 Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe
 65 70 75 80
 Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser
 85 90 95
 Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala
 100 105 110
 Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 115 120 125
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 130 135 140
 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
 145 150 155 160
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
 165 170 175
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 180 185 190
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
 195 200 205
 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 210 215 220
 Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
 225 230 235 240
 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
 245 250 255
 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
 260 265 270
 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
 275 280 285
 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
 290 295 300
 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
 305 310 315 320
 Leu Ser Pro Gly Lys
 325

<210> 186
 <211> 117
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 186
 Lys Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe
 1 5 10 15
 Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val
 20 25 30
 Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp
 35 40 45
 Val Asn Gly Lys Glu Val His Ser Gly Val Cys Thr Asp Pro Gln Pro
 50 55 60

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

<210> 187
 <211> 96
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 187

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

<210> 188
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 188

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

Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro
225					230					235					240
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu
				245					250						255
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn
			260					265					270		
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
		275					280					285			
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
	290					295					300				
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
305					310					315					320
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
			325					330						335	
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
		340						345					350		
Ser	Leu	Ser	Pro	Gly	Lys										
		355													

<210> 189
 <211> 96
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 189

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

<210> 190
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 190

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

Ala	Ala	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
145					150					155					160
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp
				165					170						175
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly
			180					185					190		
Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn
			195				200					205			
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp
210						215					220				
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro
225					230					235					240
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu
				245					250					255	
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn
			260					265					270		
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
			275					280				285			
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
290						295					300				
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
305					310					315					320
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
				325				330						335	
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
			340					345					350		
Ser	Leu	Ser	Pro	Gly	Lys										
					355										

<210> 191
 <211> 96
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 191

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

<210> 192
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 192

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

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

<210> 193
 <211> 96
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 193

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

<210> 194
 <211> 96
 <212> PRT
 <213> artificial sequence
 <220>

<223> synthetic
 <400> 194
 Lys Pro Asp Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp
 1 5 10 15
 Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser
 20 25 30
 Gln Thr Gln Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp
 35 40 45
 Lys Cys Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Gln Ser Ala
 50 55 60
 Val Ala Trp Ser Gln Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Gln
 65 70 75 80
 Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser
 85 90 95

<210> 195
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 195

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

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
340 345 350

Ser Leu Ser Pro Gly Lys
355

<210> 196

<211> 355

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 196

Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu
1 5 10 15

Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys
20 25 30

Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val
35 40 45

Asn Gly Lys Glu Val His Ser Gly Val Cys Thr Asp Pro Gln Pro Leu
50 55 60

Lys Glu Gln Pro Ala Leu Gln Asp Ser Arg Tyr Ala Leu Ser Ser Arg
65 70 75 80

Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg
85 90 95

Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln
100 105 110

Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly
115 120 125

Arg Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly
130 135 140

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
145 150 155 160

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln
165 170 175

Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val
180 185 190

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr
195 200 205

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
210 215 220

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile
225 230 235 240

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
245 250 255

Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser
260 265 270

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
275 280 285

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
290 295 300

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val
305 310 315 320

Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met
325 330 335

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
340 345 350

Leu Gly Lys
355

<210> 197

<211> 118

<212> PRT

<213> artificial sequence

<220>

<223> synthetic
 <400> 197
 Lys Pro Thr Gly Val Gly Gly Thr Pro Phe Pro Ser Leu Ala Pro Pro
 1 5 10 15
 Ile Met Leu Leu Val Asp Gly Lys Gln Gln Met Val Val Val Cys Leu
 20 25 30
 Val Leu Asp Val Ala Pro Pro Gly Leu Asp Ser Pro Ile Trp Phe Ser
 35 40 45
 Ala Gly Gln Gly Ser Ala Leu Asp Ala Phe Thr Tyr Gly Pro Ser Pro
 50 55 60
 Ala Thr Asp Gly Thr Trp Thr Asn Leu Ala His Leu Ser Leu Pro Ser
 65 70 75 80
 Glu Glu Leu Ala Ser Trp Glu Pro Leu Val Cys His Thr Gly Pro Gly
 85 90 95
 Ala Glu Gly His Ser Arg Ser Thr Gln Pro Met His Leu Ser Gly Glu
 100 105 110
 Ala Ser Thr Ala Arg Thr
 115

<210> 198
 <211> 358
 <212> PRT
 <213> artificial sequence

<220>
 <223> synthetic
 <400> 198
 Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu
 1 5 10 15
 Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys
 20 25 30
 Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val
 35 40 45
 Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro Leu
 50 55 60
 Lys Glu Gln Pro Ala Leu Gln Asp Ser Arg Tyr Ala Leu Ser Ser Arg
 65 70 75 80
 Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg
 85 90 95
 Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln
 100 105 110
 Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly
 115 120 125
 Arg Ala Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
 130 135 140
 Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
 145 150 155 160
 Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
 165 170 175
 Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
 180 185 190
 Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
 195 200 205
 Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
 210 215 220
 Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
 225 230 235 240
 Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
 245 250 255
 Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
 260 265 270
 Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
 275 280 285
 Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
 290 295 300

Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
305					310					315					320
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
				325					330					335	
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
			340					345					350		
Ser	Leu	Ser	Pro	Gly	Lys										
		355													

<210> 199
 <211> 118
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 199

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

<210> 200
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 200

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

Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn		
	195						200					205					
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp		
	210					215					220						
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro		
	225				230					235					240		
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu		
				245					250					255			
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn		
			260					265					270				
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile		
	275						280					285					
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr		
	290					295					300						
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys		
	305				310					315					320		
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys		
				325					330					335			
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu		
		340						345					350				
Ser	Leu	Ser	Pro	Gly	Lys												
	355																

<210> 201
 <211> 118
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 201

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

<210> 202
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 202

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

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

<210> 203
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 203

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

Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	
				165					170						175	
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	
			180					185						190		
Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	
			195				200					205				
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	
	210					215					220					
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	
225					230					235					240	
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	
				245					250					255		
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	
			260					265					270			
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	
		275					280					285				
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	
	290					295					300					
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	
305					310					315					320	
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	
				325				330						335		
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	
		340						345					350			
Ser	Leu	Ser	Pro	Gly	Lys											
		355														

<210> 204
 <211> 118
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 204

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

<210> 205
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 205

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

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

<210> 206
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 206

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

Arg	Ala	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu
130						135					140				
Ala	Ala	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
145					150					155					160
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp
				165					170						175
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly
			180					185					190		
Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn
			195				200					205			
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp
210						215					220				
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro
225					230					235					240
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu
				245					250						255
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn
			260					265					270		
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
			275					280				285			
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
290						295					300				
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
305					310					315					320
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
				325					330					335	
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
			340					345					350		
Ser	Leu	Ser	Pro	Gly	Lys										
			355												

<210> 207
 <211> 118
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 207

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

<210> 208
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 208

Leu	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro	Glu	Val	Ala	Val	Phe	Glu
1				5					10					15	

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

<210> 209
 <211> 118
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 209

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

Ala Glu Gly His Ser Arg Ser Thr Gln Pro Met His Leu Ser Gly Glu
 100 105 110
 Ala Ser Thr Ala Arg Thr
 115

<210> 210
 <211> 118
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 210

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

<210> 211
 <211> 358
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 211

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

Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro
225					230					235					240
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu
				245					250						255
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn
			260					265					270		
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
		275					280					285			
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
	290					295					300				
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
305					310					315					320
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
			325					330						335	
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
		340						345					350		
Ser	Leu	Ser	Pro	Gly	Lys										
		355													

<210> 212
 <211> 131
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 212

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

<210> 213
 <211> 347
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 213

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

Gly	Ala	Glu	Gly	His	Ser	Arg	Ser	Thr	Gln	Pro	Met	His	Leu	Ser	Gly
			100					105					110		
Glu	Ala	Ser	Thr	Ala	Arg	Thr	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro
		115					120					125			
Cys	Pro	Ala	Pro	Glu	Ala	Ala	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
	130					135					140				
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
145					150					155					160
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
				165					170					175	
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
			180					185					190		
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
		195					200					205			
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
	210					215					220				
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
225					230					235					240
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu
				245					250					255	
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
			260					265					270		
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
		275					280					285			
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
	290					295					300				
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
305					310					315					320
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
				325					330					335	
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
			340					345							

<210> 214

<211> 347

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 214

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

Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	
		195					200					205				
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	
	210					215					220					
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	
225					230					235					240	
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	
				245					250					255		
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	
			260					265					270			
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	
	275						280					285				
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	
	290					295					300					
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	
305					310				315						320	
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	
				325					330					335		
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys						
			340					345								

<210> 215
 <211> 89
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 215

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

<210> 216
 <211> 338
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 216

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

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

Gly Lys

<210> 217
 <211> 89
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 217

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

<210> 218
 <211> 338
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 218

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

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

Gly Lys

<210> 219
 <211> 89
 <212> PRT
 <213> artificial sequence

<220>
 <223> synthetic
 <400> 219

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

<210> 220
 <211> 338
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 220

<210> 222
 <211> 338
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 222

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

Gly Lys

<210> 223
 <211> 89
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 223

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

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

<210> 224
 <211> 338
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 224

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

Gly Lys

<210> 225
 <211> 89
 <212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 225

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

<210> 226

<211> 338

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 226

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

Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro
				325					330						335

Gly Lys

<210> 227
 <211> 338
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 227

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

Gly Lys

<210> 228
 <211> 89
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 228

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

<210> 229
 <211> 338
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 229

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

Gly Lys

<210> 230
 <211> 89
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 230
 Glu Pro Arg Ser Gln Pro His Thr Lys Pro Ser Val Phe Val Met Lys
 1 5 10 15
 Gln Gly Thr Asn Val Ala Cys Leu Val Lys Glu Phe Tyr Pro Lys Asp
 20 25 30
 Ile Arg Ile Asn Leu Val Ser Ser Lys Lys Ile Thr Glu Phe Asp Pro
 35 40 45
 Ala Ile Val Ile Ser Pro Ser Gly Lys Tyr Asn Ala Val Lys Leu Gly
 50 55 60
 Lys Tyr Glu Asp Ser Asn Ser Val Thr Cys Ser Val Gln His Asp Gln
 65 70 75 80
 Lys Thr Val His Ser Thr Asp Phe Cys
 85

<210> 231
 <211> 89
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 231
 Glu Pro Arg Ser Gln Pro His Thr Lys Pro Ser Val Phe Val Met Lys
 1 5 10 15
 Asn Gly Thr Asn Val Ala Cys Leu Val Lys Glu Phe Tyr Pro Lys Asp
 20 25 30
 Ile Arg Ile Asn Leu Val Ser Ser Lys Lys Ile Thr Glu Phe Asp Pro
 35 40 45
 Ala Ile Val Ile Ser Pro Ser Gly Lys Tyr Asn Ala Val Lys Leu Gly
 50 55 60
 Lys Tyr Glu Asp Ser Asn Ser Val Thr Cys Ser Val Gln His Asp Asn
 65 70 75 80
 Lys Thr Val His Ser Thr Asp Phe Glu
 85

<210> 232
 <211> 338
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 232
 Thr Asp Lys Gln Leu Asp Ala Asp Val Ser Pro Lys Pro Thr Ile Phe
 1 5 10 15
 Leu Pro Ser Ile Ala Glu Thr Lys Leu Gln Lys Ala Gly Thr Tyr Leu
 20 25 30
 Cys Leu Leu Glu Lys Phe Phe Pro Asp Val Ile Lys Ile His Trp Gln
 35 40 45
 Glu Lys Lys Ser Asn Thr Ile Leu Gly Ser Gln Glu Gly Asn Thr Met
 50 55 60
 Lys Thr Asn Asp Thr Tyr Met Lys Phe Ser Trp Leu Thr Val Pro Glu
 65 70 75 80
 Glu Ser Leu Asp Lys Glu His Arg Cys Ile Val Arg His Glu Asn Asn
 85 90 95
 Lys Asn Gly Val Asp Gln Glu Ile Ile Phe Pro Pro Ile Lys Ser Asp
 100 105 110
 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
 115 120 125

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

Gly Lys

<210> 233
 <211> 89
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 233

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

<210> 234
 <211> 338
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 234

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

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

Gly Lys

<210> 235
 <211> 117
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 235

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

<210> 236
 <211> 319
 <212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 236

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

<210> 237

<211> 117

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 237

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

Lys Asn Gly Val Asp Gln Glu Ile Ile Phe Pro Pro Ile Lys Thr Asp
 100 105 110
 Val Ile Thr Met Asp
 115

 <210> 238
 <211> 319
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 238
 Glu Pro Arg Ser Gln Pro His Thr Lys Pro Ser Val Phe Val Met Lys
 1 5 10 15
 Gln Gly Thr Asn Val Ala Cys Leu Val Lys Glu Phe Tyr Pro Lys Asp
 20 25 30
 Ile Arg Ile Asn Leu Val Ser Ser Lys Lys Ile Thr Glu Phe Asp Pro
 35 40 45
 Ala Ile Cys Ile Ser Pro Ser Gly Lys Tyr Asn Ala Val Lys Leu Gly
 50 55 60
 Lys Tyr Glu Asp Ser Asn Ser Val Thr Cys Ser Val Gln His Asp Gln
 65 70 75 80
 Lys Thr Val His Ser Thr Asp Glu Pro Lys Ser Cys Asp Lys Thr His
 85 90 95
 Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val
 100 105 110
 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 115 120 125
 Pro Glu Val Thr Cys Val Val Asp Val Ser His Glu Asp Pro Glu
 130 135 140
 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 145 150 155 160
 Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
 165 170 175
 Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 180 185 190
 Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
 195 200 205
 Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 210 215 220
 Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 225 230 235 240
 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 245 250 255
 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 260 265 270
 Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 275 280 285
 Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
 290 295 300
 His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 305 310 315

<210> 239
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 239
 Pro Asn Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser
 1 5 10 15
 Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln
 20 25 30

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

<210> 240
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 240

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

<210> 241
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 241

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

<210> 242
 <211> 129
 <212> PRT
 <213> Homo sapiens
 <400> 242

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

Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	Arg	Asn	His	Phe	Arg	Cys
				85					90					95	
Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	Asp	Glu	Trp	Thr	Gln	Asp
			100					105					110		
Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	Ala	Glu	Ala	Trp	Gly	Arg
		115					120						125		
Ala															

<210> 243
 <211> 130
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 243

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

<210> 244
 <211> 130
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 244

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

<210> 245
 <211> 117
 <212> PRT

```

<213> Homo sapiens
<400> 245
Pro Thr Gly Val Gly Gly Thr Pro Phe Pro Ser Leu Ala Pro Pro Ile
1      5      10      15
Met Leu Leu Val Asp Gly Lys Gln Gln Met Val Val Val Cys Leu Val
      20      25      30
Leu Asp Val Ala Pro Pro Gly Leu Asp Ser Pro Ile Trp Phe Ser Ala
      35      40      45
Gly Asn Gly Ser Ala Leu Asp Ala Phe Thr Tyr Gly Pro Ser Pro Ala
      50      55      60
Thr Asp Gly Thr Trp Thr Asn Leu Ala His Leu Ser Leu Pro Ser Glu
65      70      75      80
Glu Leu Ala Ser Trp Glu Pro Leu Val Cys His Thr Gly Pro Gly Ala
      85      90      95
Glu Gly His Ser Arg Ser Thr Gln Pro Met His Leu Ser Gly Glu Ala
      100     105     110
Ser Thr Ala Arg Thr
      115

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<210> 246
<211> 117
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 246

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

```

```

<210> 247
<211> 117
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 247

```

```

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

```

Ser Thr Ala Arg Thr
115

<210> 248

<211> 89

<212> PRT

<213> Homo sapiens

<400> 248

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

<210> 249

<211> 89

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 249

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

<210> 250

<211> 89

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 250

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

<210> 251

<211> 106

<212> PRT

<213> Homo sapiens
 <400> 251
 Thr Asp Lys Gln Leu Asp Ala Asp Val Ser Pro Lys Pro Thr Ile Phe
 1 5 10 15
 Leu Pro Ser Ile Ala Glu Thr Lys Leu Gln Lys Ala Gly Thr Tyr Leu
 20 25 30
 Cys Leu Leu Glu Lys Phe Phe Pro Asp Val Ile Lys Ile His Trp Gln
 35 40 45
 Glu Lys Lys Ser Asn Thr Ile Leu Gly Ser Gln Glu Gly Asn Thr Met
 50 55 60
 Lys Thr Asn Asp Thr Tyr Met Lys Phe Ser Trp Leu Thr Val Pro Glu
 65 70 75 80
 Lys Ser Leu Asp Lys Glu His Arg Cys Ile Val Arg His Glu Asn Asn
 85 90 95
 Lys Asn Gly Val Asp Gln Glu Ile Ile Phe
 100 105

<210> 252
 <211> 106
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 252

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

<210> 253
 <211> 106
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 253

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

<210> 254
 <211> 142
 <212> PRT

```

<213> Homo sapiens
<400> 254
Pro Asn Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser
1      5      10      15
Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln
      20      25      30
Thr Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys
      35      40      45
Thr Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val
      50      55      60
Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn
      65      70      75      80
Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys
      85      90      95
Asp Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn
      100      105      110
Phe Gln Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val
      115      120      125
Ala Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser Ser
      130      135      140

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<210> 255
<211> 95
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 255

```

```

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

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<210> 256
<211> 177
<212> PRT
<213> Homo sapiens
<400> 256

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```

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

```

Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala
 145 150 155 160
 Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg Lys Asp
 165 170 175
 Phe

<210> 257
 <211> 178
 <212> PRT
 <213> Homo sapiens
 <400> 257

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

<210> 258
 <211> 130
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 258

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

<210> 259

```

<211> 281
<212> PRT
<213> Homo sapiens
<400> 259
Met Ala Gly Thr Trp Leu Leu Leu Leu Leu Ala Leu Gly Cys Pro Ala
1      5      10      15
Leu Pro Thr Gly Val Gly Gly Thr Pro Phe Pro Ser Leu Ala Pro Pro
20      25      30
Ile Met Leu Leu Val Asp Gly Lys Gln Gln Met Val Val Val Cys Leu
35      40      45
Val Leu Asp Val Ala Pro Pro Gly Leu Asp Ser Pro Ile Trp Phe Ser
50      55      60
Ala Gly Asn Gly Ser Ala Leu Asp Ala Phe Thr Tyr Gly Pro Ser Pro
65      70      75      80
Ala Thr Asp Gly Thr Trp Thr Asn Leu Ala His Leu Ser Leu Pro Ser
85      90      95
Glu Glu Leu Ala Ser Trp Glu Pro Leu Val Cys His Thr Gly Pro Gly
100     105     110
Ala Glu Gly His Ser Arg Ser Thr Gln Pro Met His Leu Ser Gly Glu
115     120     125
Ala Ser Thr Ala Arg Thr Cys Pro Gln Glu Pro Leu Arg Gly Thr Pro
130     135     140
Gly Gly Ala Leu Trp Leu Gly Val Leu Arg Leu Leu Leu Phe Lys Leu
145     150     155     160
Leu Leu Phe Asp Leu Leu Leu Thr Cys Ser Cys Leu Cys Asp Pro Ala
165     170     175
Gly Pro Leu Pro Ser Pro Ala Thr Thr Thr Arg Leu Arg Ala Leu Gly
180     185     190
Ser His Arg Leu His Pro Ala Thr Glu Thr Gly Gly Arg Glu Ala Thr
195     200     205
Ser Ser Pro Arg Pro Gln Pro Arg Asp Arg Arg Trp Gly Asp Thr Pro
210     215     220
Pro Gly Arg Lys Pro Gly Ser Pro Val Trp Gly Glu Gly Ser Tyr Leu
225     230     235     240
Ser Ser Tyr Pro Thr Cys Pro Ala Gln Ala Trp Cys Ser Arg Ser Ala
245     250     255
Leu Arg Ala Pro Ser Ser Ser Leu Gly Ala Phe Phe Ala Gly Asp Leu
260     265     270
Pro Pro Pro Leu Gln Ala Gly Ala Ala
275     280

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```

<210> 260
<211> 130
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 260
Gly Ala His Met Leu Pro Thr Gly Val Gly Gly Thr Pro Phe Pro Ser
1      5      10      15
Leu Ala Pro Pro Ile Met Leu Leu Val Asp Gly Lys Gln Gln Met Val
20      25      30
Val Val Cys Leu Val Leu Asp Val Ala Pro Pro Gly Leu Asp Ser Pro
35      40      45
Ile Trp Phe Ser Ala Gly Asn Gly Ser Ala Leu Asp Ala Phe Thr Tyr
50      55      60
Gly Pro Ser Pro Ala Thr Asp Gly Thr Trp Thr Asn Leu Ala His Leu
65      70      75      80
Ser Leu Pro Ser Glu Leu Ala Ser Trp Glu Pro Leu Val Cys His
85      90      95
Thr Gly Pro Gly Ala Glu Gly His Ser Arg Ser Thr Gln Pro Met His
100     105     110
Leu Ser Gly Glu Ala Ser Thr Ala Arg Thr Cys Ser Gly Asp Asp Asp
115     120     125

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Asp Lys
130

<210> 261
<211> 296
<212> PRT
<213> Homo sapiens
<400> 261

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

<210> 262
<211> 236
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 262

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

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

<210> 263
 <211> 173
 <212> PRT
 <213> Homo sapiens
 <400> 263

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

<210> 264
 <211> 127
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 264

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

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

<210> 265
 <211> 189
 <212> PRT
 <213> Homo sapiens
 <400> 265

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

<210> 266
 <211> 5
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 266

Thr	Gly	Gly	Gly	Gly
1				5

<210> 267
 <211> 5
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 267

Gly	Gly	Gly	Gly	Ser
1				5

<210> 268
 <211> 5
 <212> PRT
 <213> artificial sequence
 <220>

<223> synthetic
 <400> 268
 Ser Gly Gly Gly Gly
 1 5

 <210> 269
 <211> 18
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 269
 Gly Ala Pro Gly Gly Gly Gly Gly Ala Ala Ala Ala Gly Gly Gly
 1 5 10 15
 Gly Gly

<210> 270
 <211> 13
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 270
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 1 5 10

<210> 271
 <211> 15
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 271
 Arg Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
 1 5 10 15

<210> 272
 <211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 272
 Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe
 1 5 10

<210> 273
 <211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 273
 Lys Leu Ile Ile Lys Pro Asp Ile Gln Asn Pro Asp Pro Ala
 1 5 10

<210> 274
 <211> 13
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 274

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
1 5 10

<210> 275
<211> 14
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 275

Lys Leu Ile Ile Lys Pro Asp Ile Gln Asn Pro Asp Pro Ala
1 5 10

<210> 276
<211> 14
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 276

Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe
1 5 10

<210> 277
<211> 15
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 277

Arg Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
1 5 10 15

<210> 278
<211> 11
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 278

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
1 5 10

<210> 279
<211> 8
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 279

Glu Ser Lys Tyr Gly Pro Pro Cys
1 5

<210> 280
<211> 12
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 280

Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Val Ser
1 5 10

<210> 281

<211> 11
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 281
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
1 5 10

<210> 282
<211> 8
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 282
Glu Ser Lys Tyr Gly Pro Pro Cys
1 5

<210> 283
<211> 13
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 283
Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
1 5 10

<210> 284
<211> 15
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 284
Arg Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
1 5 10 15

<210> 285
<211> 14
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 285
Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe
1 5 10

<210> 286
<211> 14
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 286
Lys Leu Ile Ile Lys Pro Asp Ile Gln Asn Pro Asp Pro Ala
1 5 10

<210> 287
<211> 14
<212> PRT
<213> artificial sequence
<220>

<223> synthetic
 <400> 287
 Gly Cys Pro Ala Leu Pro Thr Gly Val Gly Gly Thr Pro Phe
 1 5 10

<210> 288
 <211> 13
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 288
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 1 5 10

<210> 289
 <211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 289
 Lys Leu Ile Ile Lys Pro Asp Ile Gln Asn Pro Asp Pro Ala
 1 5 10

<210> 290
 <211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 290
 Gly Cys Pro Ala Leu Pro Thr Gly Val Gly Gly Thr Pro Phe
 1 5 10

<210> 291
 <211> 14
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 291
 Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe
 1 5 10

<210> 292
 <211> 15
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 292
 Arg Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
 1 5 10 15

<210> 293
 <211> 13
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 293
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 1 5 10

<210> 294
 <211> 232
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 294

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

<210> 295
 <211> 232
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 295

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

Lys	Asn	Gln	Val	Ser	Leu	Trp	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
145					150					155					160
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
				165					170						175
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr
			180					185					190		
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe
		195					200					205			
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys
	210					215					220				
Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys								
225					230										

<210> 296
 <211> 232
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 296

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

<210> 297
 <211> 229
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 297

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

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

<210> 298

<211> 229

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 298

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

<210> 299

<211> 229
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 299
 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
 1 5 10 15
 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 20 25 30
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 35 40 45
 Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
 50 55 60
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
 65 70 75 80
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 85 90 95
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
 100 105 110
 Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 115 120 125
 Gln Val Cys Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
 130 135 140
 Val Ser Leu Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
 145 150 155 160
 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
 165 170 175
 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Arg Leu
 180 185 190
 Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
 195 200 205
 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
 210 215 220
 Leu Ser Leu Gly Lys
 225

<210> 300
 <211> 117
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 300
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Ala Phe Thr Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Ile Ser Pro Gly Asn Val Asn Thr Lys Tyr Asn Glu Asn Phe
 50 55 60
 Lys Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gly Tyr Ser Leu Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val
 115

<210> 301
 <211> 111
 <212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 301

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

<210> 302

<211> 209

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 302

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

<210> 303

<211> 209

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 303

```
Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
1      5      10      15
```

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

Lys

<210> 304
 <211> 209
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 304

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

Lys

<210> 305

<211> 209
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 305
 Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
 1 5 10 15
 Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp
 20 25 30
 Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 35 40 45
 Ala Lys Thr Lys Pro Arg Glu Gln Phe Asn Ser Thr Tyr Arg Val
 50 55 60
 Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
 65 70 75 80
 Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys
 85 90 95
 Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 100 105 110
 Leu Pro Pro Cys Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Trp
 115 120 125
 Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 130 135 140
 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 145 150 155 160
 Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys
 165 170 175
 Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 180 185 190
 Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly
 195 200 205
 Lys

<210> 306
 <211> 4
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 306
 Trp Gly Arg Ala
 1

<210> 307
 <211> 4
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <220>
 <221> X
 <222> (3)..(4)
 <223> "X" represents that no amino acid is present
 <400> 307
 Phe Glu Xaa Xaa
 1

<210> 308
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>

<223> synthetic
 <400> 308
 Lys Leu Glu Asp Leu Lys Asn Val Phe Pro Pro
 1 5 10

<210> 309
 <211> 9
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 309
 Lys Pro Thr Gly Val Gly Gly Thr Pro
 1 5

<210> 310
 <211> 80
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 310
 Lys Ser Val Phe Val Met Lys Asn Gly Thr Asn Val Ala Cys Leu Val
 1 5 10 15
 Lys Glu Phe Tyr Pro Lys Asp Ile Arg Ile Asn Leu Val Ser Ser Lys
 20 25 30
 Lys Ile Thr Glu Phe Asp Pro Ala Ile Val Ile Ser Pro Ser Gly Lys
 35 40 45
 Tyr Asn Ala Val Lys Leu Gly Lys Tyr Glu Asp Ser Asn Ser Val Thr
 50 55 60
 Cys Ser Val Gln His Asp Asn Lys Thr Val His Ser Thr Asp Phe Glu
 65 70 75 80

<210> 311
 <211> 109
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 311
 Phe Pro Ser Leu Ala Pro Pro Ile Met Leu Leu Val Asp Gly Lys Gln
 1 5 10 15
 Gln Met Val Val Val Cys Leu Val Leu Asp Val Ala Pro Pro Gly Leu
 20 25 30
 Asp Ser Pro Ile Trp Phe Ser Ala Gly Gln Gly Ser Ala Leu Asp Ala
 35 40 45
 Phe Thr Cys Gly Pro Ser Pro Ala Thr Asp Gly Thr Trp Thr Asn Leu
 50 55 60
 Ala His Leu Ser Leu Pro Ser Glu Glu Leu Ala Ser Trp Glu Pro Leu
 65 70 75 80
 Val Cys His Thr Gly Pro Gly Ala Glu Gly His Ser Arg Ser Thr Gln
 85 90 95
 Pro Met His Leu Ser Gly Glu Ala Ser Thr Ala Arg Thr
 100 105

<210> 312
 <211> 109
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 312
 Phe Pro Ser Leu Cys Pro Pro Ile Met Leu Leu Val Asp Gly Lys Gln
 1 5 10 15

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

<210> 313
 <211> 109
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 313

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

<210> 314
 <211> 109
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 314

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

<210> 315
 <211> 109
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 315

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

<210> 316
 <211> 109
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 316

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

<210> 317
 <211> 121
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 317

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

<210> 318
 <211> 110
 <212> PRT

<213> artificial sequence
 <220>
 <223> synthetic
 <400> 318
 Phe Pro Ser Leu Ala Pro Pro Ile Met Leu Leu Val Asp Gly Lys Gln
 1 5 10 15
 Gln Met Val Val Val Cys Leu Val Leu Asp Val Ala Pro Pro Gly Leu
 20 25 30
 Asp Ser Pro Ile Trp Phe Ser Ala Gly Gln Gly Ser Ala Leu Asp Ala
 35 40 45
 Phe Thr Tyr Gly Pro Ser Pro Ala Thr Asp Gly Thr Trp Thr Asn Leu
 50 55 60
 Ala His Leu Ser Leu Pro Ser Glu Glu Leu Ala Ser Trp Glu Pro Leu
 65 70 75 80
 Val Cys His Thr Gly Pro Gly Ala Glu Gly His Ser Arg Ser Thr Gln
 85 90 95
 Pro Met His Leu Ser Gly Glu Ala Ser Thr Ala Arg Thr Cys
 100 105 110

<210> 319
 <211> 116
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 319
 Glu Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln
 1 5 10 15
 Lys Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val
 20 25 30
 Glu Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser
 35 40 45
 Thr Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Gln Asp Ser Arg
 50 55 60
 Tyr Ala Leu Cys Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn
 65 70 75 80
 Pro Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu
 85 90 95
 Asn Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val
 100 105 110
 Ser Ala Glu Ala
 115

<210> 320
 <211> 116
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 320
 Glu Val Ala Val Cys Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln
 1 5 10 15
 Lys Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val
 20 25 30
 Glu Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser
 35 40 45
 Thr Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Gln Asp Ser Arg
 50 55 60
 Tyr Ala Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn
 65 70 75 80
 Pro Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu
 85 90 95
 Asn Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val
 100 105 110

Ser Ala Glu Ala
115

<210> 321
<211> 116
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 321

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

<210> 322
<211> 116
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 322

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

<210> 323
<211> 116
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 323

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

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

<210> 324
 <211> 116
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 324

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

<210> 325
 <211> 79
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 325

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

<210> 326
 <211> 79
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 326

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

Ile	Thr	Glu	Phe	Asp	Pro	Ala	Ile	Cys	Ile	Ser	Pro	Ser	Gly	Lys	Tyr
		35					40					45			
Asn	Ala	Val	Lys	Leu	Gly	Lys	Tyr	Glu	Asp	Ser	Asn	Ser	Val	Thr	Cys
	50					55					60				
Ser	Val	Gln	His	Asp	Gln	Lys	Thr	Val	His	Ser	Thr	Asp	Phe	Glu	
65					70					75					

<210> 327
 <211> 79
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 327

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

<210> 328
 <211> 79
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 328

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

<210> 329
 <211> 79
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 329

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

<210> 330
 <211> 79
 <212> PRT

<213> artificial sequence
 <220>
 <223> synthetic
 <400> 330
 Ser Val Phe Val Met Lys Gln Gly Thr Asn Val Ala Cys Leu Val Lys
 1 5 10 15
 Glu Phe Tyr Pro Lys Asp Ile Arg Ile Asn Leu Val Ser Ser Lys Lys
 20 25 30
 Ile Thr Glu Phe Asp Pro Ala Ile Val Ile Ser Pro Ser Gly Lys Tyr
 35 40 45
 Asn Ala Val Lys Leu Gly Lys Tyr Glu Asp Ser Asn Ser Val Thr Cys
 50 55 60
 Ser Val Gln His Asp Gln Lys Thr Val His Ser Thr Asp Cys Glu
 65 70 75

<210> 331
 <211> 79
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 331
 Ser Val Phe Val Met Lys Gln Gly Thr Asn Val Ala Cys Leu Val Lys
 1 5 10 15
 Glu Phe Tyr Pro Lys Asp Ile Arg Ile Asn Leu Val Ser Ser Lys Lys
 20 25 30
 Ile Thr Glu Phe Asp Pro Ala Ile Val Ile Ser Pro Ser Gly Lys Tyr
 35 40 45
 Asn Ala Val Lys Leu Gly Lys Tyr Glu Asp Ser Asn Ser Val Thr Cys
 50 55 60
 Ser Val Gln His Asp Gln Lys Thr Val His Ser Thr Asp Phe Cys
 65 70 75

<210> 332
 <211> 77
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 332
 Ser Val Phe Val Met Lys Gln Gly Thr Asn Val Ala Cys Leu Val Lys
 1 5 10 15
 Glu Phe Tyr Pro Lys Asp Ile Arg Ile Asn Leu Val Ser Ser Lys Lys
 20 25 30
 Ile Thr Glu Phe Asp Pro Ala Ile Cys Ile Ser Pro Ser Gly Lys Tyr
 35 40 45
 Asn Ala Val Lys Leu Gly Lys Tyr Glu Asp Ser Asn Ser Val Thr Cys
 50 55 60
 Ser Val Gln His Asp Gln Lys Thr Val His Ser Thr Asp
 65 70 75

<210> 333
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 333
 Lys Pro Cys Ile Phe Leu Pro Ser Ile Ala Glu Thr Lys Leu Gln Lys
 1 5 10 15
 Ala Gly Thr Tyr Leu Cys Leu Leu Glu Lys Phe Phe Pro Asp Val Ile
 20 25 30
 Lys Ile His Trp Gln Glu Lys Lys Ser Asn Thr Ile Leu Gly Ser Gln
 35 40 45

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

<210> 334
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 334

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

<210> 335
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 335

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

<210> 336
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 336

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

Arg His Glu Asn Asn Lys Asn Gly Val Asp Gln Glu Ile Ile Phe
85 90 95

<210> 337
<211> 95
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 337

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

<210> 338
<211> 95
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 338

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

<210> 339
<211> 95
<212> PRT
<213> artificial sequence
<220>
<223> synthetic
<400> 339

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

<210> 340

<211> 106
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 340
 Lys Pro Thr Ile Phe Leu Pro Ser Ile Ala Glu Thr Lys Leu Gln Lys
 1 5 10 15
 Ala Gly Thr Tyr Leu Cys Leu Leu Glu Lys Phe Phe Pro Asp Val Ile
 20 25 30
 Lys Ile His Trp Gln Glu Lys Lys Ser Asn Thr Ile Leu Gly Ser Cys
 35 40 45
 Glu Gly Asn Thr Met Lys Thr Gln Asp Thr Tyr Met Lys Phe Ser Trp
 50 55 60
 Leu Thr Val Pro Glu Glu Ser Leu Asp Lys Glu His Arg Cys Ile Val
 65 70 75 80
 Arg His Glu Asn Asn Lys Asn Gly Val Asp Gln Glu Ile Ile Phe Pro
 85 90 95
 Pro Ile Lys Thr Asp Val Ile Thr Met Asp
 100 105

<210> 341
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 341
 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
 1 5 10

<210> 342
 <211> 10
 <212> PRT
 <213> Mus musculus
 <400> 342
 Gly Phe Ala Phe Thr Asp Tyr Tyr Ile His
 1 5 10

<210> 343
 <211> 17
 <212> PRT
 <213> Mus musculus
 <400> 343
 Trp Ile Ser Pro Gly Asn Val Asn Thr Lys Tyr Asn Glu Asn Phe Lys
 1 5 10 15
 Gly

<210> 344
 <211> 10
 <212> PRT
 <213> Mus musculus
 <400> 344
 Asp Gly Tyr Ser Leu Tyr Tyr Phe Asp Tyr
 1 5 10

<210> 345
 <211> 17
 <212> PRT
 <213> Mus musculus
 <400> 345
 Lys Ser Ser Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Asn Tyr Leu
 1 5 10 15

Ala

<210> 346

<211> 7

<212> PRT

<213> Mus musculus

<400> 346

Trp Ala Ser Thr Arg Gln Ser

1 5

<210> 347

<211> 8

<212> PRT

<213> Mus musculus

<400> 347

Thr Gln Ser His Thr Leu Arg Thr

1 5

<210> 348

<211> 119

<212> PRT

<213> Mus musculus

<400> 348

Gln 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 Phe Ala Phe Thr Asp Tyr

20 25 30

Tyr Ile His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile

35 40 45

Gly Trp Ile Ser Pro Gly Asn Val Asn Thr Lys Tyr Asn Glu Asn Phe

50 55 60

Lys Gly Arg Ala Thr Leu Thr Ala Asp Leu Ser Ser Ser Thr Ala Tyr

65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys

85 90 95

Ala Arg Asp Gly Tyr Ser Leu Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly

100 105 110

Thr Thr Leu Thr Val Ser Ser

115

<210> 349

<211> 357

<212> DNA

<213> Mus musculus

<400> 349

caggtccagc tgcagcagtc tggacctgaa ttggtgaagc ctgggggcttc cgtgaggata 60

tcctgcaagg cttctggcct cgccctcaca gactactata tacactgggt gaagcagagg 120

cctggacagg gtcttgagtg gattggatgg atttctcctg gaaatgttaa tactaaatac 180

aatgaaaact tcaagggcag ggccacactg actgcagacc tatcctccag cacagcctac 240

atgcagctca gcagcctgac ctctgaggac tctgcggtct atttctgtgc aagagatgga 300

tattccctgt attactttga ctactggggc caaggcacca ctctcacagt ctcctca 357

<210> 350

<211> 112

<212> PRT

<213> Mus musculus

<400> 350

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

1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser

20 25 30

Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln

35 40 45

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

<210> 351

<211> 336

<212> DNA

<213> Mus musculus

<400> 351

gacattgtga	tgctcacagtc	tccatcctcc	ctgactgtgt	cagcaggaga	gaaggctcact	60
atgagctgca	aatccagtc	gagtcctgctc	aacagtagaa	cccgaagaa	ctacttggct	120
tggtaccagc	agaagccagg	gcagtcctcct	aaactactaa	tctactgggc	atccactagg	180
caatctgggg	tccctgatcg	cttcacaggc	agtggatctg	ggacagcttt	cactctcacc	240
atcagcggtg	tgcaggctga	agacctggca	gtttatttct	gcacgcaatc	tcatactctt	300
cggacgttcg	gtggaggcac	caagctggaa	atcaaa			336

<210> 352

<211> 119

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 352

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

<210> 353

<211> 357

<212> DNA

<213> artificial sequence

<220>

<223> synthetic

<400> 353

caggtgcagc	ttgtgcagtc	tggggcagaa	gtgaagaagc	ctgggtctag	tgtcaagggtg	60
tcatgcaagg	ctagcgggtt	cgcccttact	gactactaca	tccactgggt	gcggcaggct	120
cccggacaag	ggttgagtg	gatgggatgg	atctccccag	gcaatgtcaa	cacaaagtac	180
aacgagaact	tcaaaggccg	cgtcaccatt	accgccgaca	agagcacctc	cacagcctac	240
atggagctgt	ccagcctcag	aagcgaggac	actgccgtct	actactgtgc	cagggatggg	300
tactccctgt	attactttga	ttactggggc	cagggcacac	tggtgacagt	gagctcc	357

<210> 354

<211> 112

<212> PRT

<213> artificial sequence

<220>

<223> synthetic
 <400> 354
 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 Asn Ser
 20 25 30
 Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Gln Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Thr Gln
 85 90 95
 Ser His Thr Leu Arg Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 355
 <211> 336
 <212> DNA
 <213> artificial sequence

<220>
 <223> synthetic
 <400> 355
 gatatcgtga tgacccagag cccagactcc cttgctgtct ccctcggcga aagagcaacc 60
 atcaactgca agagctccca aagcctgctg aactccagga ccaggaagaa ttacctggcc 120
 tggatatcagc agaagcccgg ccagcctcct aagctgctca tctactgggc ctccaccgga 180
 cagtctgggg tgcccgatcg gtttagtgga tctgggagcg ggacagactt cacattgaca 240
 attagctcac tgcaggccga ggacgtggcc gtctactact gtactcagag ccacactctc 300
 cgcacattcg gcggagggac taaagtggag attaag 336

<210> 356
 <211> 10
 <212> PRT
 <213> Mus musculus
 <400> 356
 Gly Tyr Thr Phe Thr Asn Tyr Val Ile His
 1 5 10

<210> 357
 <211> 17
 <212> PRT
 <213> Mus musculus
 <400> 357
 Tyr Phe Asn Pro Tyr Asn Asp Gly Thr Glu Tyr Asn Glu Lys Phe Lys
 1 5 10 15
 Ala

<210> 358
 <211> 12
 <212> PRT
 <213> Mus musculus
 <400> 358
 Gly Pro Tyr Tyr Tyr Gly Ser Ser Pro Phe Asp Tyr
 1 5 10

<210> 359
 <211> 17
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 359

Tyr Ile Asp Pro Tyr Asn Ala Asp Thr Thr Tyr Asn Gln Lys Phe Lys
 1 5 10 15
 Gly

<210> 360

<211> 10

<212> PRT

<213> Mus musculus

<400> 360

Ser Ala Ser Ser Thr Val Asn Tyr Met His
 1 5 10

<210> 361

<211> 7

<212> PRT

<213> Mus musculus

<400> 361

Ser Thr Ser Asn Leu Ala Ser
 1 5

<210> 362

<211> 9

<212> PRT

<213> Mus musculus

<400> 362

His Gln Trp Ser Ser Tyr Pro Tyr Thr
 1 5

<210> 363

<211> 116

<212> PRT

<213> Mus musculus

<400> 363

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

<210> 364

<211> 348

<212> DNA

<213> Mus musculus

<400> 364

gagatccagc	tgcagcagtc	tggacctgag	ctgggtgaagc	ctgggggcttc	agtgaaggta	60
tcttgcaagg	cttctgggta	tgcattcact	agctacaaca	tgtactgggt	gaagcagagc	120
catggaaaga	gccttgagtg	gattggatat	attgatcctt	acaatgggtga	tactacctac	180
aaccagaagt	tcaagggcaa	ggccacattg	actgttgaca	agtcctccag	cacagcctac	240
atgcattctca	acagcctgac	atctgaggac	tctgcagtct	attactgtct	cactacggcc	300
tatgctatgg	actactgggg	tcaaggaacc	tcagtcaccg	tctcctca		348

<210> 365

<211> 106
 <212> PRT
 <213> Mus musculus
 <400> 365
 Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Leu Gly
 1 5 10 15
 Glu Glu Ile Thr Leu Thr Cys Ser Ala Ser Ser Thr Val Asn Tyr Met
 20 25 30
 His Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Leu Leu Ile Tyr
 35 40 45
 Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Phe Tyr Ser Leu Thr Ile Arg Ser Val Glu Ala Glu
 65 70 75 80
 Asp Ala Ala Asp Tyr Tyr Cys His Gln Trp Ser Ser Tyr Pro Tyr Thr
 85 90 95
 Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 366
 <211> 318
 <212> DNA
 <213> Mus musculus
 <400> 366
 caaattgttc tcacccagtc tccagcaatc atgtctgcat ctctagggga ggagatcacc 60
 ctaacctgca gtgccagctc gactgtaaat tacatgcact ggtaccagca gaagtcaggc 120
 acttctccca aactcttgat ttatagcaca tccaacctgg cttctggagt cccttctcgc 180
 ttcagtggca gtgggtctgg gaccttttat tctctcacia tcagaagtgt ggaggctgaa 240
 gatgctgccg attattactg ccatcagtgg agtagttatc cgtacacgtt cggagggggg 300
 accaagctgg aaataaaa 318

<210> 367
 <211> 116
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 367
 Gln Met Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Thr
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Ser Tyr
 20 25 30
 Asn Met Tyr Trp Val Arg Gln Ala Arg Gly Gln Arg Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Asp Pro Tyr Asn Ala Asp Thr Thr Tyr Asn Gln Lys Phe
 50 55 60
 Lys Gly Arg Val Thr Ile Thr Arg Asp Met 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
 Leu Thr Thr Ala Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 368
 <211> 348
 <212> DNA
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 368
 caaatgcagc tcgtccagtc tggacctgaa gtgaagaagc ccgggacatc cgtcaaggtc 60
 tcatgtaagg ctagcgggta cgcattcact tcctacaaca tgtactgggt gcgccaggcc 120

agaggacaga	ggttggagtg	gatcggctac	atcgacccat	acaacgccga	tactacctac	180
aatcagaagt	ttaaagggcg	ggtgaccatt	acccgggata	tgtccacctc	caccgcctac	240
atggagctga	gcagcctgag	gagcgaggac	acagccgtgt	actactgcct	gacaacagcc	300
tatgccatgg	actattgggg	ccagggcaca	cttgtgactg	tgagcagt		348

<210> 369
 <211> 106
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 369

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

<210> 370
 <211> 318
 <212> DNA
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 370

gacatccagc	tcacccaatc	cccttctttc	ctctccgcaa	gtgtcggaga	tagggtgact	60
atcacctgct	cagcttcttc	aaccgtgaac	tacatgcatt	ggtaccagca	gaagcccggg	120
aaagccccaa	agctgctgat	ctacagcacc	tccaatctgg	ccagtggagt	gccaagccgg	180
tttagcggga	gcggctccgg	cactgaattc	actttgacaa	ttagcagcct	tcagcctgag	240
gactttgcca	catattactg	tcaccagtgg	tccagctacc	cctacacatt	cgggcagggc	300
acaaagctgg	agattaag					318

<210> 371
 <211> 213
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 371

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

Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala	Lys
130						135					140				
Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu
145					150					155					160
Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser	Ser
				165				170						175	
Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr	Ala
			180				185						190		
Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	Phe
195							200					205			
Asn	Arg	Gly	Glu	Cys											
210															

<210> 372
 <211> 446
 <212> PRT
 <213> artificial sequence
 <220>

<223> synthetic
 <400> 372

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

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

<210> 373
 <211> 207
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 373

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

<210> 374
 <211> 475
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 374

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

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

<210> 375

<211> 215

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 375

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

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

<210> 376

<211> 710

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 376

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

Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	275	280	285
Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	290	295	300
Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	305	310	315
Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	325	330	335
Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	340	345	350
Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	355	360	365
Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	370	375	380
Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	385	390	395
Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	405	410	415
Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	420	425	430
His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Gly	Gly	Gly	Gly	435	440	445
Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	450	455	460
Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	465	470	475
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	His	485	490	495
Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	500	505	510
Ser	Thr	Ile	Thr	Gly	Gly	Gly	Gly	Ser	Ile	Tyr	Tyr	Ala	Asp	Ser	Val	515	520	525
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	530	535	540
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	545	550	555
Ala	Lys	Asn	Arg	Ala	Gly	Glu	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	565	570	575
Thr	Leu	Val	Thr	Val	Leu	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro	Glu	580	585	590
Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys	595	600	605
Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu	610	615	620
Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Cys	Thr	625	630	635
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser	Arg	Tyr	645	650	655
Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	660	665	670
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	675	680	685
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	690	695	700
Ala	Glu	Ala	Trp	Gly	Arg											705	710	

<210> 377
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 377

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

<210> 378
 <211> 211
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 378

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

<210> 379

<211> 710
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 379

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

Ser	Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly
465					470					475					480
Arg	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser
				485					490					495	
Tyr	Thr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp
			500					505					510		
Val	Thr	Phe	Ile	Ser	Tyr	Asp	Gly	Asn	Asn	Lys	Tyr	Tyr	Ala	Asp	Ser
		515					520					525			
Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu
	530					535					540				
Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr
545					550					555					560
Cys	Ala	Arg	Thr	Gly	Trp	Leu	Gly	Pro	Phe	Asp	Tyr	Trp	Gly	Gln	Gly
				565					570					575	
Thr	Leu	Val	Thr	Val	Leu	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro	Glu
			580					585					590		
Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys
		595					600					605			
Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu
	610					615					620				
Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Cys	Thr
625					630					635					640
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser	Arg	Tyr
				645					650					655	
Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro
			660					665					670		
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn
		675					680					685			
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser
	690					695					700				
Ala	Glu	Ala	Trp	Gly	Arg										
705					710										

<210> 380

<211> 203

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 380

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

Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser
 195 200

<210> 381
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 381

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

<210> 382
 <211> 707
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 382

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

Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Cys	Thr	
				165					170					175		
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser	Arg	Tyr	
			180					185					190			
Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	
		195					200					205				
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	
	210					215					220					
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	
225					230					235					240	
Ala	Glu	Ala	Trp	Gly	Arg	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	
			245					250						255		
Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	
			260					265						270		
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	
		275					280					285				
Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	
	290					295					300					
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	
305					310					315					320	
Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	
				325					330					335		
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	
			340					345					350			
Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	
		355					360					365				
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	
	370					375					380					
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	
385					390					395					400	
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	
			405						410					415		
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	
			420					425					430			
Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	
		435				440						445				
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	
	450					455					460					
Ser	Leu	Ser	Leu	Ser	Leu	Gly	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	
465					470					475					480	
Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gln	Val	Gln	Leu	Val	
				485					490					495		
Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg	Ser	Leu	Arg	Leu	Ser	
			500					505					510			
Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Thr	Met	His	Trp	Val	
		515					520					525				
Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Thr	Phe	Ile	Ser	Tyr	
	530					535					540					
Asp	Gly	Asn	Asn	Lys	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	
545				550					555						560	
Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	
				565					570					575		
Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys	Ala	Arg	Thr	Gly	Trp	
			580					585					590			
Leu	Gly	Pro	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	
		595					600					605				
Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Cys	Ser	
	610					615					620					
Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	
625					630					635					640	
Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	
				645					650					655		
Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	
			660					665					670			

Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Lys
	675						680					685			
Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp
	690					695					700				
Lys	Arg	Val													
705															

<210> 383
 <211> 215
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 383

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

<210> 384
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 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 384

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

Pro	Ala	Val	Tyr	Gln	Leu	Arg	Asp	Ser	Lys	Ser	Ser	Asp	Lys	Ser	Val
		115					120					125			
Cys	Leu	Phe	Thr	Asp	Phe	Asp	Ser	Gln	Thr	Gln	Val	Ser	Gln	Ser	Lys
	130					135					140				
Asp	Ser	Asp	Val	Tyr	Ile	Thr	Asp	Lys	Cys	Val	Leu	Asp	Met	Arg	Ser
	145				150					155					160
Met	Asp	Phe	Lys	Ser	Asn	Ser	Ala	Val	Ala	Trp	Ser	Gln	Lys	Ser	Asp
				165					170					175	
Phe	Ala	Cys	Ala	Asn	Ala	Phe	Gln	Asn	Ser	Ile	Ile	Pro	Glu	Asp	Thr
			180					185					190		
Phe	Phe	Pro	Ser	Pro	Glu	Ser	Ser								
		195					200								

<210> 385
 <211> 701
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 385

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

<210>	386
<211>	215
<212>	PRT
<213>	artificial sequence
<220>	
<223>	synthetic
<400>	386

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

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

<210> 387
 <211> 211
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 387

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

<210> 388
 <211> 698
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 388

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
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Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	His
		20						25					30		

Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val		
	35						40					45					
Ser	Thr	Ile	Thr	Gly	Gly	Gly	Gly	Ser	Ile	Tyr	Tyr	Ala	Asp	Ser	Val		
	50					55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr		
	65				70					75					80		
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
				85					90					95			
Ala	Lys	Asn	Arg	Ala	Gly	Glu	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly		
			100					105					110				
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe		
	115						120					125					
Pro	Leu	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu		
	130					135					140						
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp		
	145				150					155					160		
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu		
				165					170					175			
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser		
			180					185					190				
Ser	Ser	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro		
	195					200						205					
Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Gly	Gly	Gly	Gly	Ser	Gly	Gly		
	210					215					220						
Gly	Gly	Ser	Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln		
	225				230					235					240		
Pro	Gly	Arg	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe		
				245					250					255			
Ser	Ser	Tyr	Thr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu		
			260					265					270				
Glu	Trp	Val	Thr	Phe	Ile	Ser	Tyr	Asp	Gly	Asn	Asn	Lys	Tyr	Tyr	Ala		
	275						280					285					
Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn		
	290					295					300						
Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile		
	305				310					315					320		
Tyr	Tyr	Cys	Ala	Arg	Thr	Gly	Trp	Leu	Gly	Pro	Phe	Asp	Tyr	Trp	Gly		
				325					330					335			
Gln	Gly	Thr	Leu	Val	Thr	Val	Leu	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro		
			340					345					350				
Pro	Glu	Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr		
	355						360					365					
Gln	Lys	Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His		
	370					375					380						
Val	Glu	Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val		
	385				390					395					400		
Cys	Thr	Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser		
				405					410					415			
Arg	Tyr	Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln		
			420					425					430				
Asn	Pro	Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser		
			435				440					445					
Glu	Asn	Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile		
	450					455					460						
Val	Ser	Ala	Glu	Ala	Trp	Gly	Arg	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys		
	465				470					475					480		
Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro		
				485					490					495			
Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys		
			500					505					510				
Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp		
			515				520					525					
Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu		
	530					535					540						

Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu
545					550					555					560
His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn
				565					570						575
Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly
			580					585					590		
Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu
		595					600					605			
Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr
610						615					620				
Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn
625					630					635					640
Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe
				645					650						655
Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn
			660					665					670		
Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr
		675					680					685			
Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys						
	690					695									

<210> 389
 <211> 203
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 389

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

<210> 390
 <211> 200
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 390

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

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

<210> 391
 <211> 475
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 391

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

<210> 394
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 <212> PRT
 <213> artificial sequence
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Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
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Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	His	
		20						25					30			
Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Thr	Ile	Thr	Gly	Gly	Gly	Gly	Ser	Ile	Tyr	Tyr	Ala	Asp	Ser	Val	
	50					55				60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70				75						80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85					90						95		
Ala	Lys	Asn	Arg	Ala	Gly	Glu	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	
			100					105					110			
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	
	115						120					125				
Pro	Leu	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	
	130				135					140						
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	
145				150					155						160	
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	
			165					170						175		
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	
			180					185					190			
Ser	Ser	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	
	195					200						205				
Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	
	210					215					220					
Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	
225				230					235						240	
Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	
			245						250					255		
Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	
		260						265					270			
Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	
	275						280					285				
Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	
	290					295					300					
Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	
305				310					315						320	
Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	
			325					330						335		
Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	
			340					345					350			
Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	
	355					360						365				
Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	
	370					375					380					
Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	
385				390					395						400	
Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	
			405						410					415		
Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	
			420					425					430			
Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Gly	Gly	Gly	
	435						440					445				

Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly
450						455					460				
Ser	Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly
465						470				475					480
Ser	Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asn
										490					495
Tyr	Phe	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp
										505					510
Met	Gly	Arg	Val	Asp	Pro	Glu	Gln	Gly	Arg	Ala	Asp	Tyr	Ala	Glu	Lys
										520					525
Phe	Lys	Lys	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Ser	Thr	Ser	Thr	Ala
530											540				
Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr
545						550				555					560
Cys	Ala	Arg	Arg	Ala	Met	Asp	Asn	Tyr	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
										570					575
Gly	Thr	Leu	Val	Thr	Val	Leu	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro
															590
Glu	Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln
															605
Lys	Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val
610															620
Glu	Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Cys
625						630				635					640
Thr	Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser	Arg
										650					655
Tyr	Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn
										665					670
Pro	Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu
															685
Asn	Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val
690						695					700				
Ser	Ala	Glu	Ala	Trp	Gly	Arg									
705						710									

<210> 395
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 <223> synthetic
 <400> 395

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

Asp	Phe	Ala	Cys	Ala	Asn	Ala	Phe	Gln	Asn	Ser	Ile	Ile	Pro	Glu	Asp
			180					185					190		
Thr	Phe	Phe	Pro	Ser	Pro	Glu	Ser	Ser							
		195					200								

<210> 396
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 <220>
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 <400> 396

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

<210> 397
 <211> 708
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 <220>
 <223> synthetic
 <400> 397

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

Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu	145	150	155	160
Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Cys	Thr	165	170	175	
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp	Ser	Arg	Tyr	180	185	190	
Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	195	200	205	
Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	210	215	220	
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	225	230	235	240
Ala	Glu	Ala	Trp	Gly	Arg	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	245	250	255	
Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	260	265	270	
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	275	280	285	
Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	290	295	300	
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	305	310	315	320
Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	325	330	335	
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	340	345	350	
Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	355	360	365	
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	370	375	380	
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	385	390	395	400
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	405	410	415	
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	420	425	430	
Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	435	440	445	
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	450	455	460	
Ser	Leu	Ser	Leu	Ser	Leu	Gly	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	465	470	475	480
Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gln	Val	Gln	Leu	Val	485	490	495	
Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser	Ser	Val	Lys	Val	Ser	500	505	510	
Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asn	Tyr	Phe	Met	Asn	Trp	Val	515	520	525	
Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met	Gly	Arg	Val	Asp	Pro	530	535	540	
Glu	Gln	Gly	Arg	Ala	Asp	Tyr	Ala	Glu	Lys	Phe	Lys	Lys	Arg	Val	Thr	545	550	555	560
Ile	Thr	Ala	Asp	Lys	Ser	Thr	Ser	Thr	Ala	Tyr	Met	Glu	Leu	Ser	Ser	565	570	575	
Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Arg	Ala	Met	580	585	590	
Asp	Asn	Tyr	Gly	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	595	600	605	
Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Cys	610	615	620	
Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	625	630	635	640
Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	645	650	655	

Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu
			660					665						670	
Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr
		675					680					685			
Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr	Lys	Val
	690					695					700				
Asp	Lys	Arg	Val												
705															

<210> 398
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 <212> PRT
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 <400> 398

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

<210> 399
 <211> 200
 <212> PRT
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 <220>
 <223> synthetic
 <400> 399

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

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

<210> 400
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 <223> synthetic
 <400> 400

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

Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			340					345					350		
Ala	Arg	Arg	Ala	Met	Asp	Asn	Tyr	Gly	Phe	Ala	Tyr	Trp	Gly	Gln	Gly
		355					360					365			
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe
	370					375					380				
Pro	Leu	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu
385					390					395					400
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp
				405					410					415	
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu
			420					425					430		
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser
		435					440					445			
Ser	Ser	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro
	450					455					460				
Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro
465					470				475						480
Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe
				485				490						495	
Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro
			500					505					510		
Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val
		515					520					525			
Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr
	530					535					540				
Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val
545					550					555					560
Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys
				565				570						575	
Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser
			580					585					590		
Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro
		595					600					605			
Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val
	610					615					620				
Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly
625					630					635					640
Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp
				645					650					655	
Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp
			660					665					670		
Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His
	675						680					685			
Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys		
	690					695					700				

<210> 401

<211> 213

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 401

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

Asp	Ala	Ala	Thr	Tyr	Tyr	Cys	His	His	Trp	Ser	Asn	Thr	Gln	Trp	Thr	
				85					90					95		
Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr	Val	Ala	Ala	Pro	
			100					105					110			
Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	
		115					120					125				
Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala	Lys	
		130				135					140					
Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu	
145					150					155					160	
Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser	Ser	
			165					170						175		
Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr	Ala	
			180					185					190			
Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	Phe	
		195					200					205				
Asn	Arg	Gly	Glu	Cys												
		210														

<210> 402
 <211> 211
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 402

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

<210> 403
 <211> 699
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 403

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
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Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	His
			20					25					30		
Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Thr	Ile	Thr	Gly	Gly	Gly	Gly	Ser	Ile	Tyr	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70				75						80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Lys	Asn	Arg	Ala	Gly	Glu	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly
		100						105					110		
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe
		115					120					125			
Pro	Leu	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu
	130					135					140				
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp
145					150					155					160
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu
			165						170					175	
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser
			180					185					190		
Ser	Ser	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro
		195					200					205			
Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Gly	Gly	Gly	Gly	Ser	Gly	Gly
	210					215					220				
Gly	Gly	Ser	Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys
225					230					235					240
Pro	Gly	Ser	Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe
			245						250					255	
Thr	Asn	Tyr	Phe	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu
			260					265					270		
Glu	Trp	Met	Gly	Arg	Val	Asp	Pro	Glu	Gln	Gly	Arg	Ala	Asp	Tyr	Ala
		275					280					285			
Glu	Lys	Phe	Lys	Lys	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Ser	Thr	Ser
	290					295					300				
Thr	Ala	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val
305					310					315					320
Tyr	Tyr	Cys	Ala	Arg	Arg	Ala	Met	Asp	Asn	Tyr	Gly	Phe	Ala	Tyr	Trp
			325						330					335	
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Leu	Glu	Asp	Leu	Lys	Asn	Val	Phe
			340					345					350		
Pro	Pro	Glu	Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His
		355					360					365			
Thr	Gln	Lys	Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp
	370					375					380				
His	Val	Glu	Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly
385					390					395					400
Val	Cys	Thr	Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Gln	Asp
			405						410					415	
Ser	Arg	Tyr	Ala	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp
			420					425					430		
Gln	Asn	Pro	Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu
		435					440					445			
Ser	Glu	Asn	Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln
	450					455					460				
Ile	Val	Ser	Ala	Glu	Ala	Trp	Gly	Arg	Tyr	Gly	Pro	Pro	Cys	Pro	Pro
465					470					475					480
Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
			485						490					495	
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
			500					505					510		
Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn
		515					520					525			

Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	
530						535					540					
Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	
545					550					555						560
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	
			565						570					575		
Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	
			580						585					590		
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	
		595					600						605			
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	
610						615					620					
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	
625					630					635						640
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	
				645					650						655	
Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	
			660					665					670			
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	
		675					680					685				
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys						
	690					695										

<210> 404
 <211> 201
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 404

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

<210> 405
 <211> 667
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 405

Gln 1	Val	Gln	Leu	Gln 5	Glu	Ser	Gly	Pro	Gly 10	Leu	Val	Lys	Pro	Ser 15	Glu
Thr	Leu	Ser	Leu 20	Thr	Cys	Ser	Val	Thr 25	Tyr	His	Thr	Ile	Thr 30	Ser	Gly
Tyr	Asp	Trp	Thr 35	Trp	Ile	Arg	Lys 40	Pro	Pro	Gly	Lys	Gly 45	Met	Glu	Trp
Ile	Gly 50	Tyr	Ile	Ser	Tyr	Ser 55	Gly	Asn	Thr	Asn	Tyr	Asn 60	Pro	Ser	Leu
Lys 65	Ser	Arg	Val	Thr	Ile 70	Ser	Arg	Asp	Thr	Ser	Lys	Asn 75	Gln	Phe	Phe 80
Leu	Lys	Leu	Ser 85	Ser	Val	Thr	Ala	Ala 90	Asp	Thr	Ala	Val	Tyr 95	Tyr	Cys
Ala	Ser	Met	Met 100	Val	Pro	His	Tyr	Tyr 105	Val	Met	Asp	Ala	Trp 110	Gly	Gln
Gly	Thr	Leu	Val 115	Thr	Val	Ser	Ser 120	Ala	Ser	Thr	Lys	Gly 125	Pro	Ser	Val
Phe 130	Pro	Leu	Ala	Pro	Cys	Ser 135	Arg	Ser	Thr	Ser	Glu	Ser 140	Thr	Ala	Ala
Leu 145	Gly	Cys	Leu	Val	Lys 150	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser 160
Trp	Asn	Ser	Gly 165	Ala	Leu	Thr	Ser	Gly 170	Val	His	Thr	Phe	Pro	Ala	Val 175
Leu	Gln	Ser	Ser 180	Gly	Leu	Tyr	Ser	Leu 185	Ser	Ser	Val	Val	Thr 190	Val	Pro
Ser	Ser	Ser 195	Leu	Gly	Thr	Lys	Thr 200	Tyr	Thr	Cys	Asn	Val	Asp 205	His	Lys
Pro	Ser 210	Asn	Thr	Lys	Val	Asp 215	Lys	Arg	Val	Glu	Ser	Lys 220	Tyr	Gly	Pro
Pro 225	Cys	Pro	Pro	Cys	Pro 230	Ala	Pro	Glu	Phe	Leu	Gly	Gly 235	Pro	Ser	Val 240
Phe	Leu	Phe	Pro 245	Pro	Lys	Pro	Lys	Asp	Thr 250	Leu	Met	Ile	Ser	Arg	Thr 255
Pro	Glu	Val	Thr 260	Cys	Val	Val	Val	Asp	Val 265	Ser	Gln	Glu	Asp	Pro	Glu 270
Val	Gln	Phe	Asn 275	Trp	Tyr	Val	Asp 280	Gly	Val	Glu	Val	His	Asn	Ala	Lys 285
Thr	Lys 290	Pro	Arg	Glu	Glu	Gln 295	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser 300
Val 305	Leu	Thr	Val	Leu	His 310	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys 320
Cys	Lys	Val	Ser	Asn 325	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile 335
Ser	Lys	Ala	Lys 340	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro 350
Pro	Ser	Gln	Glu 355	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu 365
Val	Lys 370	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn 380
Gly 385	Gln	Pro	Glu	Asn	Asn 390	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser 400
Asp	Gly	Ser	Phe	Phe 405	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg 415
Trp	Gln	Glu	Gly 420	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu 430
His	Asn	His	Tyr 435	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys	Gly 445
Gly	Gly 450	Gly	Ser	Gly	Gly	Gly 455	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly 460
Gly 465	Gly	Ser	Ser	Tyr	Glu	Leu	Thr	Gln	Pro	Leu	Ser	Val	Ser	Val	Ala 480
Leu	Gly	Gln	Thr	Ala 485	Arg	Ile	Thr	Cys	Gly	Gly	Asp	Asn	Ile	Gly	Asn 495
Lys	Asp	Val	His 500	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu 510

Val	Ile	Tyr	Arg	Asp	Ser	Asn	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Gly	Phe
	515						520					525			
Ser	Gly	Ser	Asn	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Arg	Ala
	530					535					540				
Gln	Ala	Gly	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Val	Trp	Asp	Ser	Ile
	545				550					555					560
Trp	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Pro	Asp	Ile	Gln
			565						570					575	
Asn	Pro	Asp	Pro	Ala	Val	Tyr	Gln	Leu	Arg	Asp	Ser	Lys	Ser	Ser	Asp
		580						585					590		
Lys	Ser	Val	Cys	Leu	Phe	Thr	Asp	Phe	Asp	Ser	Gln	Thr	Gln	Val	Ser
	595						600					605			
Gln	Ser	Lys	Asp	Ser	Asp	Val	Tyr	Ile	Thr	Asp	Lys	Cys	Val	Leu	Asp
	610					615					620				
Met	Arg	Ser	Met	Asp	Phe	Lys	Ser	Asn	Ser	Ala	Val	Ala	Trp	Ser	Gln
	625				630					635					640
Lys	Ser	Asp	Phe	Ala	Cys	Ala	Asn	Ala	Phe	Gln	Asn	Ser	Ile	Ile	Pro
			645						650					655	
Glu	Asp	Thr	Phe	Phe	Pro	Ser	Pro	Glu	Ser	Ser					
			660					665							

<210> 406
 <211> 246
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 406

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

<210> 407
 <211> 219
 <212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 407

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

<210> 408

<211> 428

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 408

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

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

<210> 409

<211> 471

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 409

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

Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn
	210					215					220				
Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser
225					230				235						240
Ala	Glu	Ala	Trp	Gly	Arg	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala
				245				250						255	
Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro
			260					265						270	
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val
	275					280						285			
Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val
	290					295					300				
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln
305					310					315					320
Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln
				325					330					335	
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly
			340					345					350		
Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
		355					360					365			
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr
	370					375					380				
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
385					390					395					400
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
			405						410					415	
Lys	Thr	Thr	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	
			420				425					430			
Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe
		435					440					445			
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys
	450					455					460				
Ser	Leu	Ser	Leu	Ser	Leu	Gly									
465					470										

<210> 410

<211> 219

<212> PRT

<213> artificial sequence

<220>

<223> synthetic

<400> 410

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

Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
			180					185					190		
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
		195					200					205			
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
	210					215									

<210> 411
 <211> 95
 <212> PRT
 <213> artificial sequence
 <220>
 <223> synthetic
 <400> 411

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