

SEQUENCE LISTING

<110> Bayer Pharma AG

<120> Binder-konjugate (ADCs) mit KSP-Inhibitoren

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<213> Homo Sapiens

<400> 1

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

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

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Phe	Pro	115	Leu	Ala	Pro	Ser	Ser	120	Lys	Ser	Thr	Ser	Gly	125	Gly	Thr	Ala	Ala
130	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser			
145	Asn	Ser	Gly	Ala	150	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val		
	Gln	Ser	Ser	165	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro		
	Ser	Ser	Ser	180	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	
	Pro	Ser	Asn	195	Thr	Lys	Val	Asp	200	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp
	Lys	Thr	His	Thr	Cys	Pro	215	Pro	Cys	Pro	Ala	Pro	Glu	220	Leu	Leu	Gly	Gly
225	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile		
	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu		
	Asp	Pro	Glu	260	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	
	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg		
	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys		
305	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu		
	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr		
	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu		
	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp		
	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val		
385	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp		
	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His		
	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro		
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Gly

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Gly

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

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

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

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

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

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145	Trp	Asn	Ser	Gly	Ala	150	Leu	Thr	Ser	Gly	Val	155	His	Thr	Phe	Pro	Ala	160	Val
				165	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro			
Leu	Gln	Ser	Ser	180	Gly	Thr	Gln	Thr	185	Tyr	Ile	Cys	Asn	Val	190	Asn	His	Lys	
Ser	Ser	Ser	195	Leu	Gly	Thr	Gln	Thr	200	Tyr	Ile	Cys	Asn	Val	205	Asn	His	Lys	
Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp				
	210	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly			
Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly				
225	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile			
				245	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu			
Ser	Arg	Thr	Pro	260	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu			
Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His				
	275	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg				
Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg				
Val	290	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys				
305	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys				
Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu				
				325	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr				
Lys	Thr	Ile	Ser	340	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr				
Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu				
	355	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu					
Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp				
	370	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val				
Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val				
385	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp			
				405	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His			
Lys	Ser	Arg	Trp	420	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His			
				435	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro			
Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro				
				440	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Ser	Pro					
				445	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Ser	Pro					
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<400> 13
 Arg Ala Ser Gln Ser Ile Ser Gly Tyr Leu Asn
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Gly

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

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

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

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

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35 40 45
Ser Tyr Ile Ser Pro Ser Gly Gly Ser Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr 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 Ser Ser Lys Ser Thr Ser Gly Gly 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

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Ser	Ser	Ser	180	Leu	Gly	Thr	Gln	Thr	185	Tyr	Ile	Cys	Asn	Val	190	Asn	His	Lys
Pro	Ser	Asn	195	Thr	Lys	Val	Asp	Lys	200	Lys	Val	Glu	Pro	Lys	205	Ser	Cys	Asp
Lys	Thr	His	210	Thr	Cys	Pro	Pro	Cys	215	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	
225	Pro	Ser	Val	Phe	Leu	230	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	
240	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu		
255	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	260	Tyr	Val	Asp	Gly	Val	Glu	Val	His	
270	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	275	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	
285	Val	Val	Ser	Val	Leu	Thr	Val	Leu	290	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	
300	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	305	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	
320	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	325	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	
335	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	340	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	
350	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	355	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	
365	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	370	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	
380	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	385	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	
400	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	405	Val	Phe	Ser	Cys	Ser	Val	Met	His	
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440	Gly								445									

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 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
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<400> 26
Pro Tyr Pro Met Met
1 5

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

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Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
1 5 10

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

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20 25 30
Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Tyr Ile Ser Pro Ser Gly Gly Ser Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser Ala
115 120

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<210> 31
 <211> 215
 <212> PRT
 <213> Homo Sapiens

<400> 31
 Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Gln Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Ser Pro Phe
 85 90 95
 Ile Thr Phe Gly Pro 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 Leu
 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> 32
 <211> 449
 <212> PRT
 <213> Homo Sapiens

<400> 32
 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 Pro Tyr
 20 25 30
 Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Lys Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr 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 Ser Ser Lys Ser Thr Ser Gly Gly 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 Gln Thr Tyr Ile Cys Asn Val Asn His Lys
 195 200 205
 Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp

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210	Lys	Thr	His	Thr	Cys	Pro	215	Pro	Cys	Pro	Ala	Pro	220	Glu	Leu	Leu	Gly	Gly
225	Pro	Ser	Val	Phe	Leu	230	Phe	Pro	Pro	Lys	Pro	235	Lys	Asp	Thr	Leu	Met	Ile
	Ser	Arg	Thr	Pro	245	Val	Thr	Cys	Val	250	Val	Val	Asp	Val	Ser	His	Glu	
	Asp	Pro	Glu	260	Lys	Phe	Asn	Trp	265	Val	Asp	Gly	Val	270	Glu	Val	His	
	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	280	Glu	Gln	Tyr	Asn	285	Ser	Thr	Tyr	
	Val	290	Val	Ser	Val	Leu	Thr	Val	295	Leu	His	Gln	Asp	300	Trp	Leu	Asn	
305	Glu	Tyr	Lys	Cys	Lys	310	Val	Ser	Asn	Lys	Ala	315	Leu	Pro	Ala	Pro	Ile	
	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr		
	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	345	Leu	Thr	Lys	Asn	Gln	Val	Ser		
	Thr	Cys	355	Leu	Val	Lys	Gly	Phe	360	Tyr	Pro	Ser	Asp	Ile	Ala	Val		
	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	375	Asn	Tyr	Lys	Thr	Thr	Pro	Pro		
385	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	395	Ser	Lys	Leu	Thr	Val		
	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His		
	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro		
	Gly		435				440						445					

<210> 33
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 33
 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
 1 5 10

<210> 34
 <211> 7
 <212> PRT
 <213> Homo Sapiens

<400> 34
 Gln Ala Ser Ser Leu Gln Ser
 1 5

<210> 35
 <211> 10
 <212> PRT
 <213> Homo Sapiens

<400> 35
 Gln Gln Ser Tyr Thr Ser Pro Phe Ile Thr
 1 5 10

<210> 36
 <211> 5
 <212> PRT
 <213> Homo Sapiens

<400> 36
 Pro Tyr Pro Met Met
 1 5

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<210> 37
 <211> 17
 <212> PRT
 <213> Homo Sapiens

<400> 37
 Tyr Ile Ser Pro Ser Gly Gly Lys Thr His Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 38
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 38
 Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
 1 5 10

<210> 39
 <211> 108
 <212> PRT
 <213> Homo Sapiens

<400> 39
 Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Gln Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Ser Pro Phe
 85 90 95
 Ile Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 40
 <211> 121
 <212> PRT
 <213> Homo Sapiens

<400> 40
 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 Pro Tyr
 20 25 30
 Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Gly Lys Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser Ala
 115 120

<210> 41
 <211> 215
 <212> PRT
 <213> Homo Sapiens

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<400> 41

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

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<210> 42

<211> 449

<212> PRT

<213> Homo Sapiens

<400> 42

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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 Pro Tyr
      20      25      30
Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
      35      40      45
Ser Tyr Ile Ser Pro Ser Gly Gly Ser Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr 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 Ser Ser Lys Ser Thr Ser Gly 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 Gln Thr Tyr Ile Cys Asn Val Asn His Lys
      195      200      205
Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
      210      215      220
Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225      230      235      240
Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile

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<400> 47

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

<210> 48

<211> 11

<212> PRT

<213> Homo Sapiens

<400> 48

Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
1 5 10

<210> 49

<211> 108

<212> PRT

<213> Homo Sapiens

<400> 49

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

<210> 50

<211> 121

<212> PRT

<213> Homo Sapiens

<400> 50

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 Pro Tyr
20 25 30
Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Tyr Ile Ser Pro Ser Gly Gly Ser Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser Ala
115 120

<210> 51

<211> 215

<212> PRT

<213> Homo Sapiens

<400> 51

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

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Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser	Tyr
			20					25				30			
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35					40					45			
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55				60					
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75					80
Glu	Asp	Phe	Ala	Thr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Ser	Pro	Gly	
				85				90					95		
Ile	Thr	Phe	Gly	Pro	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	Leu
			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> 52

<211> 449

<212> PRT

<213> Homo Sapiens

<400> 52

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	Pro	Tyr
			20					25				30			
Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Lys	Thr	His	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	Arg	Gly	Gly	Asp	Thr	Tyr	Phe	Asp	Tyr	Phe	Asp	Tyr	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	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	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	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys
		195				200						205			
Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp
	210					215					220				
Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly
225					230					235					240
Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile
				245					250					255	
Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu
			260					265					270		
Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His

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Asn	Ala	275	Lys	Thr	Lys	Pro	Arg	280	Glu	Glu	Gln	Tyr	Asn	285	Ser	Thr	Tyr	Arg	
Val	Val	290	Ser	Val	Leu	Thr	Val	295	Leu	His	Gln	Asp	Trp	300	Leu	Asn	Gly	Lys	
305	Glu	Tyr	Lys	Cys	Lys	310	Val	Ser	Asn	Lys	Ala	Leu	Pro	315	Ala	Pro	Ile	320	Glu
Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	330	Val	Tyr			
Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	335	Ser	Leu			
Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	340	Glu	Trp			
370	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	345	Pro	Pro	Val		
385	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	350	Thr	Val	Asp		
Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	355	Met	His			
Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	360	Ser	Pro			
		435					440							445					

<210> 53
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 53
 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
 1 5 10

<210> 54
 <211> 7
 <212> PRT
 <213> Homo Sapiens

<400> 54
 Ala Ala Ser Ser Leu Gln Ser
 1 5

<210> 55
 <211> 10
 <212> PRT
 <213> Homo Sapiens

<400> 55
 Gln Gln Ser Tyr Ser Ser Pro Gly Ile Thr
 1 5 10

<210> 56
 <211> 5
 <212> PRT
 <213> Homo Sapiens

<400> 56
 Pro Tyr Pro Met Met
 1 5

<210> 57
 <211> 17
 <212> PRT
 <213> Homo Sapiens

<400> 57
 Tyr Ile Ser Pro Ser Gly Gly Lys Thr His Tyr Ala Asp Ser Val Lys
 1 5 10 15

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Gly

<210> 58
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 58
 Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
 1 5 10

<210> 59
 <211> 108
 <212> PRT
 <213> Homo Sapiens

<400> 59
 Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Ser Pro Gly
 85 90 95
 Ile Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 60
 <211> 121
 <212> PRT
 <213> Homo Sapiens

<400> 60
 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 Pro Tyr
 20 25 30
 Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Gly Lys Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser Ala
 115 120

<210> 61
 <211> 217
 <212> PRT
 <213> Homo Sapiens

<400> 61
 Ala Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser
 1 5 10 15
 Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
 20 25 30
 Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
 35 40 45

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

<210> 62

<211> 449

<212> PRT

<213> Homo Sapiens

<400> 62

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	Pro	Tyr
			20					25					30		
Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Lys	Thr	His	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	Arg	Gly	Gly	Asp	Thr	Tyr	Phe	Asp	Tyr	Phe	Asp	Tyr	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	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	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	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys
		195					200					205			
Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp
	210					215					220				
Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly
225					230				235					240	
Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile
				245					250					255	
Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu
			260					265					270		
Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His
		275					280					285			
Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg
	290					295					300				
Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys

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

Gly

<210> 63
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 <212> PRT
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<400> 63
 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
 1 5 10

<210> 64
 <211> 7
 <212> PRT
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<400> 64
 Ala Ala Ser Ser Leu Gln Ser
 1 5

<210> 65
 <211> 10
 <212> PRT
 <213> Homo Sapiens

<400> 65
 Gln Gln Ser Tyr Ser Ser Pro Gly Ile Thr
 1 5 10

<210> 66
 <211> 5
 <212> PRT
 <213> Homo Sapiens

<400> 66
 Pro Tyr Pro Met Met
 1 5

<210> 67
 <211> 17
 <212> PRT
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<400> 67
 Tyr Ile Ser Pro Ser Gly Gly Lys Thr His Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 68

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<211> 11
<212> PRT
<213> Homo Sapiens

<400> 68
Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
1 5 10

<210> 69
<211> 110
<212> PRT
<213> Homo Sapiens

<400> 69
Ala Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser
1 5 10 15
Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
20 25 30
Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe
50 55 60
Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
65 70 75 80
Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Ser
85 90 95
Pro Gly Ile Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 70
<211> 121
<212> PRT
<213> Homo Sapiens

<400> 70
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 Pro Tyr
20 25 30
Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Tyr Ile Ser Pro Ser Gly Gly Lys Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser Ala
115 120

<210> 71
<211> 217
<212> PRT
<213> Homo Sapiens

<400> 71
Ala Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser
1 5 10 15
Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
20 25 30
Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe
50 55 60
Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
65 70 75 80

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

<210> 72

<211> 449

<212> PRT

<213> Homo Sapiens

<400> 72

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	Pro	Tyr
			20					25					30		
Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Lys	Thr	His	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	Arg	Gly	Gly	Asp	Gly	Tyr	Phe	Asp	Tyr	Phe	Asp	Tyr	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	Ser	Ser	Lys	Ser	Thr	Ser	Gly	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	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys
		195				200						205			
Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Pro	Lys	Ser	Cys	Asp
	210					215					220				
Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly
225					230					235				240	
Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile
			245						250					255	
Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu
			260					265					270		
Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His
		275					280					285			
Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg
	290					295					300				
Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys
305					310					315				320	
Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu
				325					330					335	
Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr

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<400> 78

Gly Gly Asp Gly Tyr Phe Asp Tyr Phe Asp Tyr
1 5 10

<210> 79

<211> 110

<212> PRT

<213> Homo Sapiens

<400> 79

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

<210> 80

<211> 121

<212> PRT

<213> Homo Sapiens

<400> 80

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 Pro Tyr
20 25 30
Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Tyr Ile Ser Pro Ser Gly Gly Lys Thr His 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 Arg Gly Gly Asp Gly Tyr Phe Asp Tyr Phe Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser Ala
115 120

<210> 81

<211> 217

<212> PRT

<213> Homo Sapiens

<400> 81

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

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

<210> 82

<211> 449

<212> PRT

<213> Homo Sapiens

<400> 82

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	Pro	Tyr
			20					25					30		
Pro	Met	Ile	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Lys	Thr	His	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	Arg	Gly	Gly	Asp	Thr	Tyr	Phe	Asp	Tyr	Phe	Asp	Tyr	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	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	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	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys
		195					200					205			
Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp
	210					215					220				
Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly
	225				230				235						240
Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile
			245						250					255	
Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu
			260					265					270		
Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His
		275					280					285			
Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg
	290					295					300				
Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys
	305				310					315					320
Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu
				325					330					335	
Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr
			340					345					350		
Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu
		355					360					365			
Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp

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

<210> 83
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 83
 Arg Ala Ser Gln Ser Ile Ser Gly Tyr Leu Asn
 1 5 10

<210> 84
 <211> 7
 <212> PRT
 <213> Homo Sapiens

<400> 84
 Asn Ala Ser Ser Leu Gln Ser
 1 5

<210> 85
 <211> 10
 <212> PRT
 <213> Homo Sapiens

<400> 85
 Gln Gln Ser Tyr Thr Ser Pro Phe Ile Thr
 1 5 10

<210> 86
 <211> 5
 <212> PRT
 <213> Homo Sapiens

<400> 86
 Pro Tyr Pro Met Ile
 1 5

<210> 87
 <211> 17
 <212> PRT
 <213> Homo Sapiens

<400> 87
 Tyr Ile Ser Pro Ser Gly Gly Lys Thr His Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 88
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 88
 Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
 1 5 10

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<210> 89
 <211> 110
 <212> PRT
 <213> Homo Sapiens

<400> 89
 Ala Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser
 1 5 10 15
 Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
 20 25 30
 Gly Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
 35 40 45
 Leu Ile Tyr Asn Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe
 50 55 60
 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
 65 70 75 80
 Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Ser
 85 90 95
 Pro Phe Ile Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 90
 <211> 121
 <212> PRT
 <213> Homo Sapiens

<400> 90
 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 Pro Tyr
 20 25 30
 Pro Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Gly Lys Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser Ala
 115 120

<210> 91
 <211> 217
 <212> PRT
 <213> Homo Sapiens

<400> 91
 Ala Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser
 1 5 10 15
 Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
 20 25 30
 Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
 35 40 45
 Leu Ile Tyr Asn Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe
 50 55 60
 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
 65 70 75 80
 Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Ser
 85 90 95
 Pro Gly Ile Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys Arg Thr
 100 105 110
 Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
 115 120 125
 Lys Ser Gly Thr Ala Ser Val Cys Leu Leu Asn Asn Phe Tyr Pro
 130 135 140

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

<210> 92
 <211> 449
 <212> PRT
 <213> Homo Sapiens

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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	Pro	Tyr				
			20					25					30						
Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val				
		35					40					45							
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Lys	Thr	His	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	Arg	Gly	Gly	Asp	Thr	Tyr	Phe	Asp	Tyr	Phe	Asp	Tyr	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	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	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	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys				
		195					200					205							
Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp				
	210					215					220								
Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly				
225					230				235						240				
Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile				
				245					250					255					
Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu				
			260					265					270						
Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His				
		275					280					285							
Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg				
	290					295					300								
Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys				
305					310					315					320				
Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu				
				325					330					335					
Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr				
			340					345					350						
Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu				
		355					360					365							
Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp				
	370					375					380								
Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val				
385					390					395					400				
Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp				

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

Gly

<210> 93
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 93
 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
 1 5 10

<210> 94
 <211> 7
 <212> PRT
 <213> Homo Sapiens

<400> 94
 Asn Ala Ser Ser Leu Gln Ser
 1 5

<210> 95
 <211> 10
 <212> PRT
 <213> Homo Sapiens

<400> 95
 Gln Gln Ser Tyr Thr Ser Pro Gly Ile Thr
 1 5 10

<210> 96
 <211> 5
 <212> PRT
 <213> Homo Sapiens

<400> 96
 Pro Tyr Pro Met Met
 1 5

<210> 97
 <211> 17
 <212> PRT
 <213> Homo Sapiens

<400> 97
 Tyr Ile Ser Pro Ser Gly Gly Lys Thr His Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 98
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 98
 Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
 1 5 10

<210> 99
 <211> 110
 <212> PRT
 <213> Homo Sapiens

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<400> 99

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

<210> 100

<211> 121

<212> PRT

<213> Homo Sapiens

<400> 100

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	Pro	Tyr
			20					25					30		
Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Lys	Thr	His	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	Arg	Gly	Gly	Asp	Thr	Tyr	Phe	Asp	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala							
		115					120								

<210> 101

<211> 217

<212> PRT

<213> Homo Sapiens

<400> 101

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

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

<210> 102
 <211> 449
 <212> PRT
 <213> Homo Sapiens

<400> 102
 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 Pro Tyr
 20 25 30
 Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Lys Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr 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 Ser Ser Lys Ser Thr Ser Gly Gly 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 Gln Thr Tyr Ile Cys Asn Val Asn His Lys
 195 200 205
 Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
 210 215 220
 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 225 230 235 240
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 245 250 255
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 260 265 270
 Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 275 280 285
 Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 290 295 300
 Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 305 310 315 320
 Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 325 330 335
 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 340 345 350
 Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
 355 360 365
 Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 370 375 380
 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 385 390 395 400
 Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
 405 410 415
 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
 420 425 430
 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro

Gly 435 440 eolf-seql 445

 <210> 103
 <211> 11
 <212> PRT
 <213> Homo Sapiens

 <400> 103
 Arg Ala Ser Gln Ser Ile Ser Gly Tyr Leu Asn
 1 5 10

 <210> 104
 <211> 7
 <212> PRT
 <213> Homo Sapiens

 <400> 104
 Asn Ala Ser Ser Leu Gln Ser
 1 5

 <210> 105
 <211> 10
 <212> PRT
 <213> Homo Sapiens

 <400> 105
 Gln Gln Ser Tyr Thr Ser Pro Gly Ile Thr
 1 5 10

 <210> 106
 <211> 5
 <212> PRT
 <213> Homo Sapiens

 <400> 106
 Pro Tyr Pro Met Met
 1 5

 <210> 107
 <211> 17
 <212> PRT
 <213> Homo Sapiens

 <400> 107
 Tyr Ile Ser Pro Ser Gly Gly Lys Thr His Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

 <210> 108
 <211> 11
 <212> PRT
 <213> Homo Sapiens

 <400> 108
 Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
 1 5 10

 <210> 109
 <211> 110
 <212> PRT
 <213> Homo Sapiens

 <400> 109
 Ala Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser
 1 5 10 15

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

<210> 110
 <211> 121
 <212> PRT
 <213> Homo Sapiens

<400> 110															
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	Pro	Tyr
			20					25					30		
Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Lys	Thr	His	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	Arg	Gly	Gly	Asp	Thr	Tyr	Phe	Asp	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala							
		115					120								

<210> 111
 <211> 217
 <212> PRT
 <213> Homo Sapiens

<400> 111															
Ala	Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Ala	Ser
1				5					10					15	
Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser
			20					25					30		
Ser	Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu
		35					40					45			
Leu	Ile	Tyr	Asn	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe
	50					55					60				
Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu
65					70					75					80
Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Thr	Ser
				85					90					95	
Pro	Phe	Ile	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr
			100					105					110		
Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu
		115					120					125			
Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro
	130					135					140				
Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly
145					150					155					160
Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr
				165					170					175	
Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His
			180					185					190		
Lys	Leu	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Pro	Val	
		195					200					205			

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Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 112
 <211> 449
 <212> PRT
 <213> Homo Sapiens

<400> 112
 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 Pro Tyr
 20 25 30
 Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Gly Lys Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr 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 Ser Ser Lys Ser Thr Ser Gly Gly 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 Gln Thr Tyr Ile Cys Asn Val Asn His Lys
 195 200 205
 Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
 210 215 220
 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 225 230 235 240
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 245 250 255
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Asp Val Ser His Glu
 260 265 270
 Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 275 280 285
 Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 290 295 300
 Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 305 310 315 320
 Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 325 330 335
 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 340 345 350
 Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
 355 360 365
 Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 370 375 380
 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 385 390 395 400
 Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
 405 410 415
 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
 420 425 430
 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
 435 440 445
 Gly

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<210> 113
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 113
 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
 1 5 10

<210> 114
 <211> 7
 <212> PRT
 <213> Homo Sapiens

<400> 114
 Asn Ala Ser Ser Leu Gln Ser
 1 5

<210> 115
 <211> 10
 <212> PRT
 <213> Homo Sapiens

<400> 115
 Gln Gln Ser Tyr Thr Ser Pro Phe Ile Thr
 1 5 10

<210> 116
 <211> 5
 <212> PRT
 <213> Homo Sapiens

<400> 116
 Pro Tyr Pro Met Met
 1 5

<210> 117
 <211> 17
 <212> PRT
 <213> Homo Sapiens

<400> 117
 Tyr Ile Ser Pro Ser Gly Gly Lys Thr His Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 118
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 118
 Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
 1 5 10

<210> 119
 <211> 110
 <212> PRT
 <213> Homo Sapiens

<400> 119
 Ala Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser
 1 5 10 15
 Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
 20 25 30
 Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
 35 40 45

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

<210> 120
 <211> 121
 <212> PRT
 <213> Homo Sapiens

<400> 120
 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 Pro Tyr
 20 25 30
 Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Pro Ser Gly Gly Lys Thr His 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 Arg Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser Ala
 115 120

<210> 121
 <211> 218
 <212> PRT
 <213> Mus Musculus

<400> 121
 Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Gln Arg Ala Thr Ile Ser Cys Arg Ala Asn Lys Ser Val Ser Thr Ser
 20 25 30
 Ser Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45
 Lys Leu Leu Ile Lys Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Ile Leu Asn Ile His
 65 70 75 80
 Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His Ser Arg
 85 90 95
 Glu Leu Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105 110
 Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu Gln
 115 120 125
 Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe Tyr
 130 135 140
 Pro Lys Asp Ile Asn Val Lys Trp Lys Ile Asp Gly Ser Glu Arg Gln
 145 150 155 160
 Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr
 165 170 175
 Tyr Ser Met Ser Thr Leu Thr Leu Lys Asp Glu Tyr Glu Arg
 180 185 190
 His Asn Ser Tyr Thr Cys Glu Ala Thr His Lys Thr Ser Thr Ser Pro
 195 200 205
 Ile Val Lys Ser Phe Asn Arg Asn Glu Cys
 210 215

<210> 122

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<211> 450
<212> PRT
<213> Mus Musculus

<400> 122
Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Val Val Arg Pro Gly Val
1 5 10 15
Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30
Gly Ile His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile
35 40 45
Gly Val Ile Ser Thr Tyr Asn Gly Tyr Thr Asn Tyr Asn Gln Lys Phe
50 55 60
Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys
85 90 95
Ala Arg Ala Tyr Tyr Gly Asn Leu Tyr Tyr Ala Met Asp Tyr Trp Gly
100 105 110
Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Ala Pro Ser
115 120 125
Val Tyr Pro Leu Ala Pro Val Cys Gly Asp Thr Thr Gly Ser Ser Val
130 135 140
Thr Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Leu
145 150 155 160
Thr Trp Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala
165 170 175
Val Leu Gln Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val Thr Val Thr
180 185 190
Ser Ser Thr Trp Pro Ser Gln Ser Ile Thr Cys Asn Val Ala His Pro
195 200 205
Ala Ser Thr Lys Val Asp Lys Lys Ile Glu Pro Arg Gly Pro Thr
210 215 220
Ile Lys Pro Cys Pro Pro Cys Lys Cys Pro Ala Pro Asn Leu Leu Gly
225 230 235 240
Gly Pro Ser Val Phe Ile Phe Pro Pro Lys Ile Lys Asp Val Leu Met
245 250 255
Ile Ser Leu Ser Pro Ile Val Thr Cys Val Val Val Asp Val Ser Glu
260 265 270
Asp Asp Pro Asp Val Gln Ile Ser Trp Phe Val Asn Asn Val Glu Val
275 280 285
His Thr Ala Gln Thr Gln Thr His Arg Glu Asp Tyr Asn Ser Thr Leu
290 295 300
Arg Val Val Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met Ser Gly
305 310 315 320
Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Asp Leu Pro Ala Pro Ile
325 330 335
Glu Arg Thr Ile Ser Lys Pro Lys Gly Ser Val Arg Ala Pro Gln Val
340 345 350
Tyr Val Leu Pro Pro Pro Glu Glu Glu Met Thr Lys Lys Gln Val Thr
355 360 365
Leu Thr Cys Met Val Thr Asp Phe Met Pro Glu Asp Ile Tyr Val Glu
370 375 380
Trp Thr Asn Asn Gly Lys Thr Glu Leu Asn Tyr Lys Asn Thr Glu Pro
385 390 395 400
Val Leu Asp Ser Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu Arg Val
405 410 415
Glu Lys Lys Asn Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser Val Val
420 425 430
His Glu Gly Leu His Asn His His Thr Thr Lys Ser Phe Ser Arg Thr
435 440 445
Pro Gly
450

<210> 123
<211> 218
<212> PRT
<213> Mus Musculus

eo1f-seq1

<400> 123

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

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<210> 124

<211> 448

<212> PRT

<213> Mus Musculus

<400> 124

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

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eolf-seql

Leu	Ser	Pro	Ile	245	Thr	Cys	Val	Val	250	Asp	Val	Ser	Glu	255	Asp	Asp
Pro	Asp	Val	Gln	260	Ile	Ser	Trp	Phe	265	Val	Asn	Asn	Val	Glu	270	Val
Ala	Gln	275	Thr	Gln	Thr	His	Arg	280	Glu	Asp	Tyr	Asn	Ser	285	Thr	Leu
Val	290	Ser	Ala	Leu	Pro	Ile	Gln	His	Gln	Asp	Trp	Met	Ser	Gly	Lys	Glu
305	Phe	Lys	Cys	Lys	Val	Asn	Asn	Lys	Asp	Leu	Pro	Ala	Pro	Ile	Glu	Arg
Thr	Ile	Ser	Lys	325	Pro	Lys	Gly	Ser	Val	Arg	Ala	Pro	Gln	Val	Tyr	Val
Leu	Pro	Pro	340	Pro	Glu	Glu	Glu	Met	345	Thr	Lys	Lys	Gln	Val	Thr	Leu
Cys	Met	Val	Thr	Asp	Phe	Met	Pro	Glu	Asp	Ile	Tyr	Val	Glu	Trp	Thr	Thr
Asn	370	Asn	Gly	Lys	Thr	Glu	Leu	Asn	Tyr	Lys	Asn	Thr	Glu	Pro	Val	Leu
385	Asp	Ser	Asp	Gly	Ser	Tyr	Phe	Met	Tyr	Ser	Lys	Leu	Arg	Val	Glu	Lys
Lys	Asn	Trp	Val	Glu	Arg	Asn	Ser	Tyr	410	Ser	Cys	Ser	Val	Val	His	Glu
Gly	Leu	His	420	Asn	His	His	Thr	Thr	425	Lys	Ser	Phe	Ser	Arg	Thr	Pro
		435					440						445			

<210> 125
 <211> 218
 <212> PRT
 <213> Homo Sapiens

<400> 125

Asp	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ala	Val	Ser	Leu	Gly
1	Gln	Arg	Ala	Thr	Ile	Ser	Cys	Arg	Ala	Ser	Lys	Ser	Val	Ser	Thr
	Ser	Tyr	Ser	Tyr	Met	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro
	Lys	Leu	Leu	Ile	Lys	Tyr	Ala	Ser	Asn	Leu	Glu	Ser	Gly	Val	Pro
	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Ser	Leu	Asn	Ile
65	Pro	Met	Glu	Glu	Asp	Asp	Thr	Ala	Met	Tyr	Phe	Cys	Gln	His	Ser
	Glu	Leu	Pro	Phe	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys
	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
145	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					Pro
							210								

<210> 126
 <211> 450
 <212> PRT
 <213> Homo Sapiens

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<400> 126
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Val Ile Ser Thr Tyr Asn Gly Tyr Thr Asn Tyr Asn Gln Lys Phe
 50 55 60
 Lys Gly Arg Val Thr Met Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ala Tyr Tyr Gly Asn Leu Tyr Tyr Ala Met Asp Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly
 450

<210> 127
 <211> 218
 <212> PRT
 <213> Homo Sapiens

<400> 127
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

eo1f-seq1

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

<210> 128

<211> 449

<212> PRT

<213> Homo Sapiens

<400> 128

Gln	Val	Glu	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
			20					25					30		
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ala	Glu	Ile	Arg	Leu	Lys	Ser	Asp	Asn	Tyr	Ala	Thr	His	Tyr	Ala	Glu
	50					55				60					
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Asn	Ser
65					70				75						80
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Thr	Gly	Tyr	Tyr	Ala	Asp	Ala	Met	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	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	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	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro
		195					200					205			
Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys
	210					215					220				
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
225					230					235					240
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
				245					250					255	
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
			260					265					270		
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn

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

<210> 129
 <211> 218
 <212> PRT
 <213> Mus Musculus

Asp	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ala	Val	Ser	Leu	Gly
1	Gln	Arg	Ala	Thr	Ile	Ser	Cys	Lys	Ala	Ser	Gln	Ser	Val	Ser	Thr
Thr	Tyr	Ser	Tyr	Met	Gln	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro
Lys	Leu	Leu	Ile	Lys	Tyr	Ala	Ser	Lys	Leu	Asp	Ser	Gly	Val	Pro	Ala
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Asn	Ile	His
65	Pro	Val	Glu	Glu	Glu	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys	Gln	His	Ser
Glu	Leu	Pro	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Arg	Leu	Glu	Ile	Lys	Arg
Ala	Asp	Ala	Ala	Pro	Thr	Val	Ser	Ile	Phe	Pro	Pro	Ser	Ser	Glu	Gln
Leu	Thr	Ser	Gly	Gly	Ala	Ser	Val	Val	Cys	Phe	Leu	Asn	Asn	Phe	Tyr
Pro	Lys	Asp	Ile	Asn	Val	Lys	Trp	Lys	Ile	Asp	Gly	Ser	Glu	Arg	Gln
145	Asn	Gly	Val	Leu	Asn	Ser	Trp	Thr	Asp	Gln	Asp	Ser	Lys	Asp	Ser
Tyr	Ser	Met	Ser	Ser	Thr	Leu	Thr	Leu	Thr	Lys	Asp	Glu	Tyr	Glu	Arg
His	Asn	Ser	Tyr	Thr	Cys	Glu	Ala	Thr	His	Lys	Thr	Ser	Thr	Ser	Pro
Ile	Val	Lys	Ser	Phe	Asn	Arg	Asn	Glu	Cys						
210						215									

<210> 130
 <211> 448
 <212> PRT
 <213> Mus Musculus

Glu	Val	Lys	Leu	Gly	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1	Ser	Met	Lys	Leu	Ser	Cys	Val	Ala	Ser	Gly	Phe	Pro	Phe	Thr	Lys

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

<210> 131

<211> 218

<212> PRT

<213> Mus Musculus

<400> 131

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

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

<210> 132

<211> 451

<212> PRT

<213> Mus Musculus

<400> 132

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

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

<210> 133

<211> 282

<212> PRT

<213> Macaca fascicularis

<400> 133

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

<210> 134

<211> 282

<212> PRT

<213> Rattus norvegicus

eo1f-seq1

<400> 134

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

<210> 135

<211> 282

<212> PRT

<213> Sus scrofa

<400> 135

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

eolf-seq1

Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr
		195					200					205			
Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn
	210					215					220				
Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe
225					230					235					240
Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn
			245						250					255	
Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr
			260					265					270		
Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys						
		275					280								

<210> 136
 <211> 282
 <212> PRT
 <213> Canis lupus

<400> 136

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

<210> 137
 <211> 282
 <212> PRT
 <213> Mus Musculus

<400> 137

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

eolf-seql

Arg	Leu	Leu	Trp	Pro	Arg	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys
65	50				70	55				60					80
Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro
Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys
Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp
Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu
Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu
His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn
145					150					155					160
Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly
Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu
Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr
Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn
Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe
225					230					235					240
Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn
Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr
Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys						
		275					280								

<210> 138
 <211> 282
 <212> PRT
 <213> Homo Sapiens

<400> 138

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

eolf-seq1
 245
 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 260
 Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 275
 280

<210> 139
 <211> 296
 <212> PRT
 <213> Homo Sapiens

<400> 139
 Glu Gln Ala Pro Gly Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser
 1 5 10 15
 Ala Asp Leu Asp Lys Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro
 20 25 30
 His Ser Asp Phe Cys Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe
 35 40 45
 Arg Leu Leu Trp Pro Ile Glu Gly Arg Met Asp Pro Lys Ser Cys Asp
 50 55 60
 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 65 70 75 80
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 85 90 95
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 100 105 110
 Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 115 120 125
 Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 130 135 140
 Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 145 150 155 160
 Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 165 170 175
 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 180 185 190
 Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
 195 200 205
 Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 210 215 220
 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 225 230 235 240
 Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
 245 250 255
 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
 260 265 270
 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
 275 280
 Gly Lys His His His His His His
 290 295

<210> 140
 <211> 278
 <212> PRT
 <213> Homo Sapiens

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

[illegible]

<210> 141
<211> 47
<212> PRT
<213> Homo Sapiens

<211> 47

<212> PRT

<213> Homo Sapiens

<400> 141

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

<210> 142

<211> 282

<212> PRT

<213> Homo Sapiens

<400> 142

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

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Met	Thr	Lys	180	Asn	Gln	Val	Ser	Leu	185	Thr	Cys	Leu	Val	Lys	190	Gly	Phe	Tyr
Pro	Ser	Asp	195	Ile	Ala	Val	Glu	Trp	200	Glu	Ser	Asn	Gly	Gln	205	Pro	Glu	Asn
Asn	Tyr	Lys	210	Thr	Thr	Pro	Pro	Val	215	Leu	Asp	Ser	Asp	Gly	220	Ser	Phe	Phe
225	Leu	Tyr	Ser	Lys	245	Thr	Val	Asp	Lys	250	Ser	Arg	Trp	Gln	Gln	Gly	255	Asn
Val	Phe	Ser	Cys	260	Ser	Val	Met	His	Glu	265	Ala	Leu	His	Asn	His	270	Tyr	Thr
Gln	Lys	Ser	275	Leu	Ser	Leu	Ser	Pro	280	Gly	Lys							

<210> 143

<211> 282

<212> PRT

<213> Homo Sapiens

<400> 143

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

<210> 144

<211> 282

<212> PRT

<213> Homo Sapiens

<400> 144

Glu	Gln	Ala	Pro	Gly	Thr	Ala	Pro	Cys	Ser	Arg	Gly	Ser	Ser	Trp	Ser
1	Ala	Asp	Leu	Asp	Lys	Cys	Met	Asp	Cys	Ala	Ser	Cys	Pro	Ala	Arg
			20						25					30	
His	Ser	Asp	Phe	Cys	Leu	Gly	Cys	Ala	Ala	Ala	Pro	Pro	Ala	Pro	Phe

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

<210> 145
 <211> 282
 <212> PRT
 <213> Homo Sapiens

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

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Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 245 250 255
 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 260 265 270
 Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 275 280

<210> 146
 <211> 282
 <212> PRT
 <213> Homo Sapiens

<400> 146
 Glu Gln Ala Pro Gly Thr Ala Pro Cys Ser Arg Gly Ser Ser Ala Ser
 1 5 10 15
 Ala Asp Leu Asp Lys Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro
 20 25 30
 His Ser Asp Phe Cys Leu Gly Cys Ala Ala Pro Pro Ala Pro Phe
 35 40 45
 Arg Leu Leu Trp Pro Arg Ser Asp Lys Thr His Thr Cys Pro Pro Cys
 50 55 60
 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 65 70 75 80
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 85 90 95
 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 100 105 110
 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 115 120 125
 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 130 135 140
 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 145 150 155 160
 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 165 170 175
 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
 180 185 190
 Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 195 200 205
 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
 210 215 220
 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 225 230 235 240
 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 245 250 255
 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 260 265 270
 Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 275 280

<210> 147
 <211> 282
 <212> PRT
 <213> Homo Sapiens

<400> 147
 Glu Gln Ala Pro Gly Thr Ala Pro Cys Ser Arg Gly Arg Ser Trp Ser
 1 5 10 15
 Ala Asp Leu Asp Lys Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro
 20 25 30
 His Ser Asp Phe Cys Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe
 35 40 45
 Arg Leu Leu Trp Pro Arg Ser Asp Lys Thr His Thr Cys Pro Pro Cys
 50 55 60
 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 65 70 75 80
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 85 90 95

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

<210> 148
 <211> 282
 <212> PRT
 <213> Homo Sapiens

<400> 148

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

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<210> 149
 <211> 278
 <212> PRT
 <213> Homo Sapiens

<400> 149
 Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys Cys
 1 5 10 15
 Met Asp Cys Ala Ser Cys Arg Ala Arg Pro His Ser Asp Phe Cys Ala
 20 25 30
 Gly Cys Ala Ile Glu Gly Arg Met Asp Pro Lys Ser Cys Asp Lys Thr
 35 40 45
 His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
 50 55 60
 Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 65 70 75 80
 Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
 85 90 95
 Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 100 105 110
 Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val
 115 120 125
 Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
 130 135 140
 Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
 145 150 155 160
 Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
 165 170 175
 Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
 180 185 190
 Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
 195 200 205
 Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
 210 215 220
 Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
 225 230 235 240
 Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
 245 250 255
 Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 260 265 270
 His His His His His His
 275

<210> 150
 <211> 278
 <212> PRT
 <213> Homo Sapiens

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

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145	Ile	Ser	Lys	Ala	Lys	150	Gly	Gln	Pro	Arg	Glu	155	Pro	Gln	Val	Tyr	Thr	160	Leu		
					165	Glu	Glu	Met	Thr	Lys	170	Asn	Gln	Val	Ser	Leu	Thr	175	Cys		
				180	Gly	Phe	Tyr	Pro	Ser	185	Asp	Ile	Ala	Val	Glu	Trp	Glu	190	Ser		
			195	Gln	Pro	Glu	Asn	Asn	200	Tyr	Lys	Thr	Thr	Pro	205	Val	Leu	210	Asp		
			210	Gly	Ser	Phe	Phe	Leu	215	Tyr	Ser	Lys	Leu	Thr	220	Val	Asp	225	Lys		
			225	Asp	Gly	Ser	230	Val	Phe	Ser	Cys	235	Ser	Val	Met	His	Glu	240	Ala		
			245	Gln	Gln	Gly	Asn	Val	250	Ser	Leu	255	Ser	Leu	Ser	Pro	Gly	260	Lys		
			260	Tyr	Thr	Gln	Lys	265	Ser	Leu	Ser	Leu	Ser	Pro	270						
			275	His	His	His	His	His													

<210> 151
 <211> 278
 <212> PRT
 <213> Homo Sapiens

														<400> 151			
Ala	Pro	Cys	Ser	Arg	Gly	Ser	Ser	Trp	Ser	Ala	Asp	Leu	Asp	Lys	Cys		
1	Met	Asp	Cys	Ala	Ser	Cys	Arg	Ala	Arg	Pro	His	Ser	Ala	Phe	Cys		
				20	Glu	Gly	Arg	Met	Asp	Pro	Lys	Ser	Cys	Asp	Lys		
			35	Ile	Glu	Gly	Arg	40	Pro	Lys	Ser	Cys	Asp	Lys	Thr		
			50	Thr	Cys	Pro	Pro	55	Ala	Pro	Glu	Leu	Leu	Gly	Gly		
			65	Val	Phe	Leu	Phe	Pro	70	Lys	Pro	Lys	Asp	Thr	Leu		
			85	Thr	Cys	Val	Val	Val	90	Asp	Val	Ser	His	Glu	Asp		
			100	Glu	Val	Lys	Phe	Asn	105	Gly	Val	Glu	Val	His	Asn		
			115	Lys	Thr	Lys	Pro	Arg	120	Gln	Tyr	Asn	Ser	Thr	Tyr		
			130	Ser	Val	Leu	Thr	Val	135	Leu	His	Gln	Asp	Trp	Leu		
			145	Lys	Cys	Lys	Val	Ser	150	Lys	Ala	Leu	Pro	Ala	Pro		
			165	Ile	Ser	Lys	Ala	Lys	170	Glu	Pro	Gln	Val	Tyr	Thr		
			180	Pro	Pro	Ser	Arg	Glu	185	Asn	Gln	Val	Ser	Leu	Thr		
			195	Leu	Val	Lys	Gly	Phe	200	Ser	Asp	Ile	Ala	Val	Glu		
			210	Asn	Gly	Gln	Pro	Glu	215	Asn	Asn	Tyr	Lys	Thr	Thr		
			225	Ser	Asp	Gly	Ser	Phe	230	Phe	Leu	Tyr	Ser	Lys	Leu		
			245	Arg	Trp	Gln	Gln	Gly	250	Ser	Val	Phe	Ser	Cys	255		
			260	Leu	His	Asn	His	Tyr	265	Ser	Leu	Ser	Leu	Ser	Pro		
			275	His	His	His	His	His									

<210> 152
 <211> 278
 <212> PRT
 <213> Homo Sapiens

														<400> 152			
Ala	Pro	Cys	Ser	Arg	Gly	Ser	Ser	Trp	Ser	Ala	Asp	Leu	Asp	Lys	Cys		

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

<210> 153
 <211> 278
 <212> PRT
 <213> Homo Sapiens

<400> 153

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

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Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp
210	210				215	215					220				
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser
225				230	230					235					240
Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala
				245					250					255	
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys
			260					265					270		
His	His	His	His	His	His										
		275													

<210> 154
 <211> 278
 <212> PRT
 <213> Homo Sapiens

<400> 154

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

<210> 155
 <211> 278
 <212> PRT
 <213> Homo Sapiens

<400> 155

Ala	Pro	Cys	Ser	Arg	Gly	Ser	Ser	Trp	Ser	Ala	Asp	Leu	Asp	Lys	Cys
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Met	Asp	Cys	Ala	Ser	Cys	Arg	Ala	Ala	Pro	His	Ser	Asp	Phe	Cys	Leu
			20					25					30		
Gly	Cys	Ala	Ile	Glu	Gly	Arg	Met	Asp	Pro	Lys	Ser	Cys	Asp	Lys	Thr
		35					40					45			
His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser
	50					55					60				

eolf-seql

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

<210> 156
 <211> 240
 <212> PRT
 <213> Homo Sapiens

<400> 156

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

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<210> 157
 <211> 278
 <212> PRT
 <213> Homo Sapiens

<400> 157
 Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys Cys
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 Met Asp Cys Ala Ala Cys Arg Ala Arg Pro His Ser Asp Phe Cys Leu
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 Gly Cys Ala Ile Glu Gly Arg Met Asp Pro Lys Ser Cys Asp Lys Thr
 35 40 45
 His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
 50 55 60
 Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 65 70 75 80
 Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
 85 90 95
 Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 100 105 110
 Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val
 115 120 125
 Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
 130 135 140
 Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
 145 150 155 160
 Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
 165 170 175
 Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
 180 185 190
 Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
 195 200 205
 Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
 210 215 220
 Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
 225 230 235 240
 Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
 245 250 255
 Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 260 265 270
 His His His His His His

<210> 158
 <211> 278
 <212> PRT
 <213> Homo Sapiens

<400> 158
 Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys Cys
 1 5 10 15
 Met Ala Cys Ala Ser Cys Arg Ala Arg Pro His Ser Asp Phe Cys Leu
 20 25 30
 Gly Cys Ala Ile Glu Gly Arg Met Asp Pro Lys Ser Cys Asp Lys Thr
 35 40 45
 His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
 50 55 60
 Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 65 70 75 80
 Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
 85 90 95
 Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 100 105 110
 Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val
 115 120 125
 Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
 130 135 140
 Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr

														eolf-seql							
145	Ile	Ser	Lys	Ala	Lys	150	Gly	Gln	Pro	Arg	Glu	155	Pro	Gln	Val	Tyr	Thr	160	Leu		
					165						170						175				
	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys					
				180						185											
	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser					
			195					200					205								
	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp					
		210				215						220									
	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser					
		225			230						235										
	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala					
				245						250					255						
	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
			260						265					270							
	His	His	His	His	His	His															
			275																		

<210> 159
 <211> 278
 <212> PRT
 <213> Homo Sapiens

														<400> 159			
Ala	Pro	Cys	Ser	Arg	Gly	Ser	Ser	Trp	Ser	Ala	Asp	Leu	Asp	Ala	Cys		
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Met	Asp	Cys	Ala	Ser	Cys	Arg	Ala	Arg	Pro	His	Ser	Asp	Phe	Cys	Leu		
			20					25					30				
Gly	Cys	Ala	Ile	Glu	Gly	Arg	Met	Asp	Pro	Lys	Ser	Cys	Asp	Lys	Thr		
		35				40						45					
His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser		
		50			55						60						
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg		
		65		70					75					80			
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro		
			85					90					95				
Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala		
		100						105					110				
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val		
		115				120						125					
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr		
		130			135					140							
Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr		
		145		150					155					160			
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu		
			165					170					175				
Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys		
			180					185					190				
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser		
		195				200					205						
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp		
		210			215					220							
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser		
		225		230					235					240			
Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala		
			245					250					255				
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys		
			260					265					270				
His	His	His	His	His	His												
			275														

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 <213> Homo Sapiens

														<400> 160			
Ala	Pro	Cys	Ser	Arg	Gly	Ser	Ser	Trp	Ser	Ala	Asp	Leu	Ala	Lys	Cys		

eolf-seql

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

<210> 161
 <211> 278
 <212> PRT
 <213> Homo Sapiens

<400> 161

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

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Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp
210	210				215	215					220				
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser
225				230	230					235					240
Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala
				245					250					255	
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys
			260					265					270		
His	His	His	His	His	His										
		275													

<210> 162
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 <212> PRT
 <213> Homo Sapiens

<400> 162

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

<210> 163
 <211> 278
 <212> PRT
 <213> Homo Sapiens

<400> 163

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

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

<210> 164
 <211> 278
 <212> PRT
 <213> Homo Sapiens

<400> 164

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

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His His His 260
275 His His His

265

270

<210> 165
<211> 278
<212> PRT
<213> Homo Sapiens

<400> 165

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

<210> 166
<211> 278
<212> PRT
<213> Homo Sapiens

<400> 166

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

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

<210> 167

<211> 278

<212> PRT

<213> Homo Sapiens

<400> 167

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

<210> 168

<211> 53

<212> PRT

eo1f-seq1

<213> Homo Sapiens

<400> 168

Glu Gln Ala Pro Gly Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser
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Ala Asp Leu Asp Lys Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro
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His Ser Asp Phe Cys Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe
35 40 45
Arg Leu Leu Trp Pro
50

<210> 169

<211> 129

<212> PRT

<213> Homo Sapiens

<400> 169

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

<210> 170

<211> 959

<212> DNA

<213> Homo Sapiens

<400> 170

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tcctggagcg cggacctgga caagtgcatt gactgctgct cttgcagggc gcgaccgcac	180
agcgacttct gcctgggctg cgctgcagca cctcctgccc cttccggct gctttggccc	240
atccttgggg gcgctctgag cctgaccttc gtgctggggc tgctttcttg ctttttggtc	300
tggagacgat gccgcaggag agagaagttc accaccccca tagaggagac cggcggagag	360
ggctgcccag ctgtggcgct gatccagtga caatgtgccc cctgccagcc ggggctcgcc	420
cactcatcat tcattcatcc attctagagc cagtctctgc ctcccagacg cggcgggagc	480
caagctcctc caaccacaag ggggggtggg ggcggtgaat cacctctgag gcctgggccc	540
aggggttcagg ggaaccttcc aagggtgtctg gttgccctgc ctctggctcc agaacagaaa	600
gggagcctca cgctggctca cacaaaacag ctgacactga ctaaggaact gcagcatttg	660
cacaggggag gggggtgccc tccttcctta ggacctgggg gccaggctga cttggggggc	720
agacttgaca ctaggcccca ctactcaga tgtcctgaaa ttccaccacg ggggtcaccc	780

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tggtgggtta gggacctatt tttaacacta ggggctggcc cactaggagg gctggcccta	840
agatacagac ccccccaact ccccaaagcg gggaggagat atttatattg gggagagttt	900
ggagggggagg gagaatttat taataaaaga atctttaact ttaaaaaaaa aaaaaaaaaa	959

<210> 171
 <211> 5
 <212> PRT
 <213> Homo Sapiens

<220>
 <221> SITE
 <222> 5..5
 <223> Xaa can be any naturally occurring amino acid

<400> 171
 Pro Tyr Pro Met Xaa
 1 5

<210> 172
 <211> 17
 <212> PRT
 <213> Homo Sapiens

<220>
 <221> SITE
 <222> 8..8
 <223> Xaa can be any naturally occurring amino acid

<400> 172
 Tyr Ile Ser Pro Ser Gly Gly Xaa Thr His Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 173
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<400> 173
 Gly Gly Asp Thr Tyr Phe Asp Tyr Phe Asp Tyr
 1 5 10

<210> 174
 <211> 11
 <212> PRT
 <213> Homo Sapiens

<220>
 <221> SITE
 <222> 8..8
 <223> Xaa can be any naturally occurring amino acid

<400> 174
 Arg Ala Ser Gln Ser Ile Ser Xaa Tyr Leu Asn
 1 5 10

<210> 175
 <211> 7
 <212> PRT
 <213> Homo Sapiens

<220>
 <221> SITE

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<222> 1..1
<223> Xaa can be any naturally occurring amino acid

<400> 175
Xaa Ala Ser Ser Leu Gln Ser
1 5

<210> 176
<211> 10
<212> PRT
<213> Homo Sapiens

<220>
<221> SITE
<222> 5..6
<223> Xaa can be any naturally occurring amino acid

<220>
<221> SITE
<222> 8..8
<223> Xaa can be any naturally occurring amino acid

<400> 176
Gln Gln Ser Tyr Xaa Xaa Pro Xaa Ile Thr
1 5 10

<210> 177
<211> 645
<212> DNA
<213> Homo Sapiens

<400> 177
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atcacctgtc gggccagcca gagcatcagc ggctacctga actggtatca gcagaagccc 120
ggcaaggccc ccaagctgct gatctaccag gccagctccc tgcagagcgg cgtgccaagc 180
agattcagcg gcagcggctc cggcaccgac ttcaccctga ccatcagcag cctgcagccc 240
gaggacttcg ccacctacta ctgccagcag agctacacca gccccttcat caccttcggc 300
cagggcacca aggttgaaat caagcggacc gtggccgctc ccagcgtgtt catcttccca 360
cccagcgacg agcagctgaa gtccggcaca gccagcgtgg tctgcctgct gaacaacttc 420
tacccccgcg aggccaaggt gcagtggaag gtggacaacg ccctgcagtc cggcaactcc 480
caggaaagcg tgaccgagca ggacagcaag gactccacct acagcctgag cagcaccctg 540
accctgagca aggccgacta cgagaagcac aaggtgtacg cctgcgaagt gaccaccag 600
ggcctgtcca gcccgtgac caagagcttc aaccggggcg agtgc 645

<210> 178
<211> 1347
<212> DNA
<213> Homo Sapiens

<400> 178
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tcttgcgccg ccagcggctt cacattcagc ccctacccca tgatctgggt ccgccaggct 120
ccaggcaagg gcctggaatg ggtgtcctac atcagcccca gcggcggcag caccactac 180
gccgatagcg tgaagggccg gttcaccatc agccgggaca acagcaagaa caccctgtac 240

eo1f-seq1

ctgcagatga	acagcctgcg	ggccgaggac	accgccgtgt	actattgcgc	cagaggcggc	300
gacacctact	tcgattactt	cgactactgg	ggccagggca	ccctggtgac	agtgtccagc	360
gcctccacca	agggcccatc	ggtcttcccg	ctagcaccca	gcagcaagag	caccagcggc	420
ggaacagccg	ccctgggctg	cctggtgaaa	gactacttcc	ccgagcccgt	gaccgtgtcc	480
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tacatctgca	acgtgaacca	caagcccagc	aacaccaagg	tggacaagaa	ggtggaaccc	660
aagagctgcg	acaagaccca	cacctgtccc	ccctgccctg	cccctgaact	gctgggcgga	720
cccagcgtgt	tcctgttccc	cccaaagccc	aaggacaccc	tgatgatcag	ccggaccccc	780
gaagtgacct	gcgtggtggt	ggacgtgtcc	cacgaggacc	cagaagtga	gtttaattgg	840
tacgtggacg	gcgtggaagt	gcataacgcc	aagaccaagc	ccagagagga	acagtacaac	900
agcacctacc	gggtggtgtc	cgtgctgacc	gtgctgcacc	aggactggct	gaacggcaaa	960
gagtacaagt	gcaaggtctc	caacaaggcc	ctgcctgccc	ccatcgagaa	aaccatcagc	1020
aaggccaagg	gccagccccg	cgagcctcag	gtgtacacac	tgccccccag	ccgggatgag	1080
ctgaccaaga	accaggtgtc	cctgacctgt	ctggtgaaag	gcttctaccc	cagcgatatc	1140
gccgtggaat	gggagagcaa	cggccagccc	gagaacaatt	acaagaccac	ccccctgtg	1200
ctggacagcg	acggctcatt	cttcctgtac	tccaagctga	ccgtggacaa	gagccggtgg	1260
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cagaagtccc	tgagcctgag	ccccggc				1347

<210> 179
 <211> 645
 <212> DNA
 <213> Homo Sapiens

<400> 179	
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gggaaagccc	ctaagctcct gatctatcag gcatccagtt tgcaaagtgg ggtcccatca 180
aggttcagt	gcagtggatc tgggacagat ttactctca ccatcagcag tctgcaacct 240
gaagattttg	caacttacta ctgtcaacag agctacacta gtccattcat cactttcggc 300
cctgggacca	aggtggagat caaacgaact gtggctgcac catctgtctt catcttcccg 360
ccatctgatg	agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc 420
tatcccagag	aggccaaagt acagtggaag gtggataacg ccctccaatc gggtaactcc 480
caggagagt	tcacagagca ggacagcaag gacagcacct acagcctcag cagcacctg 540
acgctgagca	aagcagacta cgagaaacac aaactctacg cctgcgaagt caccatcag 600
ggcctgagct	cgcccgtcac aaagagcttc aacaggggag agtgt 645

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<210> 180
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

<400> 180
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 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240
 ttgcagatga acagcttaag ggctgaggac acggccgtgt attactgtgc gagaggggggt 300
 gatacttatt tcgactactt tgactactgg ggccagggaa ccctgggtcac cgtctcaagc 360
 gcctccacca agggcccatc ggtcttcccg ctagcaccca gcagcaagag caccagcggc 420
 ggaacagccg ccctgggctg cctgggtgaaa gactacttcc ccgagcccgt gaccgtgtcc 480
 tggaactctg gcgccctgac cagcggagtg cataccttcc ccgccgtgct gcagagcagc 540
 ggctgtaca gcctgagcag cgtgggtgaca gtgcccagca gcagcctggg aaccagacc 600
 tacatctgca acgtgaacca caagcccagc aacaccaagg tggacaagaa ggtggaaccc 660
 aagagctgag acaagaccca cacctgtccc ccctgccctg cccctgaact gctgggcgga 720
 cccagcgtgt tcctgttccc cccaaagccc aaggacaccc tgatgatcag ccggaccccc 780
 gaagtgcact gcgtgggtgt ggacgtgtcc cagcaggacc cagaagtga gtttaattgg 840
 tacgtggacg gcgtggaagt gcataacgcc aagaccaagc ccagagagga acagtacaac 900
 agcacctacc ggggtggtgtc cgtgctgacc gtgctgcacc aggactggct gaacggcaaa 960
 gagtacaagt gcaaggtctc caacaaggcc ctgcctgccc ccatcgagaa aaccatcagc 1020
 aaggccaagg gccagccccg cgagcctcag gtgtacacac tgccccccag ccgggatgag 1080
 ctgaccaaga accaggtgtc cctgacctgt ctggtgaaag gcttctaccc cagcgatata 1140
 gccgtggaat gggagagcaa cggccagccc gagaacaatt acaagaccac cccccctgtg 1200
 ctggacagcg acggctcatt cttcctgtac tccaagctga ccgtggacaa gagccggtgg 1260
 cagcagggca acgtgttcag ctgcagcgtg atgcacgagg ccctgcacaa tctactacac 1320
 cagaagtccc tgagcctgag ccccgcc 1347

<210> 181
 <211> 645
 <212> DNA
 <213> Homo Sapiens

<400> 181
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 ggcaaggccc ccaagctgct gatctaccag gccagctccc tgacagagcg cgtgccaagc 180
 agattcagcg gcagcggctc cggcaccgac ttaccctga ccatcagcag cctgcagccc 240

eol-f-seq1						
gaggacttcg	ccaccta	ctgccagcag	agctacacca	gcccccttcat	caccttcggc	300
cagggcacca	aggtggaaat	caagcggacc	gtggccgctc	ccagcgtggt	catcttccca	360
cccagcgacg	agcagctgaa	gtccggcaca	gccagcgtgg	tctgcctgct	gaacaacttc	420
tacccccg	aggccaaggt	gcagtggaa	gtggacaacg	ccctgcagtc	cggcaactcc	480
caggaaagcg	tgaccgagca	ggacagcaag	gactccacct	acagcctgag	cagcacctg	540
accctgagca	aggccgacta	cgagaagcac	aaggtgtacg	cctgcgaagt	gacccaccag	600
ggcctgtcca	gccccgtgac	caagagcttc	aaccggggcg	agtgc		645

<210> 182
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

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ccaggcaagg	gcctggaatg	ggtgtcctac	atcagcccca	gcggcggcag	caccactac	180
gccgatagcg	tgaagggccg	gttcaccatc	agccgggaca	acagcaagaa	caccctgtac	240
ctgcagatga	acagcctg	ggccgaggac	accgccgtgt	actattgcgc	cagaggcggc	300
gacacctact	tcgattactt	cgactactgg	ggccagggca	ccctggtgac	agtgtccagc	360
gcctccacca	agggcccatc	ggtcttcccg	ctagcaccca	gcagcaagag	caccagcggc	420
ggaacagccg	ccctgggctg	cctggtgaaa	gactacttcc	ccgagcccgt	gaccgtgtcc	480
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ctgaccaaga	accaggtgtc	cctgacctgt	ctggtgaaag	gcttctaccc	cagcgatatc	1140
gccgtggaat	gggagagcaa	cggccagccc	gagaacaatt	acaagaccac	ccccctgtg	1200
ctggacagcg	acggctcatt	cttcctgtac	tccaagctga	ccgtggacaa	gagccggtgg	1260
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cagaagtccc	tgagcctgag	ccccggc				1347

eo1f-seq1

<210> 183
<211> 645
<212> DNA
<213> Homo Sapiens

<400> 183
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gggaaagccc ctaagctcct gatctatcag gcatccagtt tgcaaagtgg ggtcccatca 180
aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct 240
gaagattttg caacttacta ctgtcaacag agctacacta gtccattcat cactttcggc 300
cctgggacca aggtggagat caaacgaact gtggctgcac catctgtctt catcttcccg 360
ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc 420
tatcccagag aggccaaagt acagtggaag gtggataacg ccctccaatc gggtaactcc 480
caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcacctcg 540
acgctgagca aagcagacta cgagaaacac aaactctacg cctgcgaagt caccatcag 600
ggcctgagct cgcccgtcac aaagagcttc aacaggggag agtgt 645

<210> 184
<211> 1347
<212> DNA
<213> Homo Sapiens

<400> 184
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tacgtggacg gcgtggaagt gcataacgcc aagaccaagc ccagagagga acagtacaac 900
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eo1f-seq1

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gccgtggaat gggagagcaa cggccagccc gagaacaatt acaagaccac cccccctgtg	1200
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<210> 185
 <211> 645
 <212> DNA
 <213> Homo Sapiens

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ggcaaggccc ccaagctgct gatctatgcc gccagctctc tgacagagcg agtgcccagc	180
agattttctg gcagcggcag cggcaccgac ttcacctga caatcagcag cctgcagccc	240
gaggacttcg ccacctacta ctgccagcag agctacagca cccccggcat cacatttggc	300
cagggcacca aggtggaaat caagcggaca gtggccgctc ccagcgtgtt catcttccca	360
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tacccccgag aggccaaggt gcagtggaa gtggacaatg ccctgcagtc cggcaactcc	480
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<210> 186
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

<400> 186 gaagttcaat tgtagagtc cggcggaggc ctggtgcagc ctggcggatc tctgagactg	60
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cctggcaagg gactggaatg ggtgtcctac atctctccca gcggcggcag caccactac	180
gccgattctg tgaagggccg gttcaccatc agccgggaca acagcaagaa caccctgtac	240
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gacacctact tcgattactt cgactactgg ggccagggca ccctggtcac cgtgtcatct	360
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tggaactctg gcgccctgac cagcggagtg cataccttcc ccgccgtgct gcagagcagc	540
ggcctgtaca gcctgagcag cgtggtgaca gtgccagca gcagcctggg aaccagacc	600

eo1f-seq1

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cccagcgtgt	tcctgttccc	cccaaagccc	aaggacaccc	tgatgatcag	ccggaccccc	780
gaagtgacct	gcgtggtggt	ggacgtgtcc	cacgaggacc	cagaagtga	gtttaattgg	840
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agcacctacc	gggtggtgtc	ctgtctgacc	gtgctgcacc	aggactggct	gaacggcaaa	960
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cagaagtccc	tgagcctgag	ccccggc				1347

<210> 187
 <211> 645
 <212> DNA
 <213> Homo Sapiens

<400> 187	
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gggaaagccc	ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
aggttcagt	gcagtggatc tgggacagat ttactctca ccatcagcag tctgcaacct 240
gaagattttg	caacttacta ctgtcaacag agctactcta gtccagggat cactttcggc 300
cctgggacca	aggtggagat caaacgaact gtggctgcac catctgtctt catcttcccg 360
ccatctgatg	agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc 420
tatcccagag	aggccaaagt acagtggaag gtggataacg ccctccaatc gggtaactcc 480
caggagagt	tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg 540
acgctgagca	aagcagacta cgagaaacac aaactctacg cctgcgaagt caccatcag 600
ggcctgagct	cgcccgtcac aaagagcttc aacaggggag agtgt 645

<210> 188
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

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cctggtaaag	gtttggagt ggtttcttat atctctcctt ctggtggcaa gactcattat 180

eo1f-seq1

gctgactccg	ttaaaggtcg	cttcactatc	tctagagaca	actctaagaa	tactctctac	240
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gatacgtatt	tcgactactt	tgactactgg	ggccagggaa	ccctgggtcac	cgtctcaagc	360
gcctccacca	agggcccatc	ggtcttcccc	ctagcaccca	gcagcaagag	caccagcggc	420
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gaagtgcact	gcgtgggtgt	ggacgtgtcc	cacgaggacc	cagaagtga	gtttaattgg	840
tacgtggacg	gcgtggaagt	gcataacgcc	aagaccaagc	ccagagagga	acagtacaac	900
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<210> 189

<211> 651

<212> DNA

<213> Homo Sapiens

<400> 189

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aaaccaggga	aagcccctaa	gctcctgata	tatgctgcat	ccagtttgca	aagtgggggtc	180
ccatcaaggt	tcagtggcag	tgatctggg	acagatttca	ctctcaccat	cagcagtctg	240
caacctgaag	attttgcaac	ttactactgt	caacagagct	actctagtcc	agggatcact	300
ttcggccctg	ggaccaaggt	ggagatcaaa	cgaactgtgg	ctgcaccatc	tgtcttcata	360
ttcccgccat	ctgatgagca	gttgaaatct	ggaactgcct	ctgttggtgtg	cctgctgaat	420
aacttctatc	ccagagaggc	caaagtacag	tggaaggtgg	ataacgccct	ccaatcgggt	480
aactcccagg	agagtgtcac	agagcaggac	agcaaggaca	gcacctacag	cctcagcagc	540
accctgacgc	tgagcaaagc	agactacgag	aaacacaaac	tctacgcctg	cgaagtcacc	600

eolf-seq1

catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t	651
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<210> 190
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

<400> 190 gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtggttc tttacgtctt	60
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ctggacagcg acggctcatt cttcctgtac tccaagctga ccgtggacaa gagccggtgg	1260
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<210> 191
 <211> 651
 <212> DNA
 <213> Homo Sapiens

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aaaccaggga aagcccctaa gctcctgatc tatgctgcat ccagtttgca aagtggggtc	180

eolf-seq1						
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<210> 192
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

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ttgcagatga	acagcttaag	ggctgaggac	acggccgtgt	attactgtgc	gagagggggg	300
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gagtacaagt	gcaaggtctc	caacaaggcc	ctgcctgccc	ccatcgagaa	aaccatcagc	1020
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ctggacagcg	acggctcatt	cttcctgtac	tccaagctga	ccgtggacaa	gagccggtgg	1260
cagcagggca	acgtgttcag	ctgcagcgtg	atgcacgagg	ccctgcacaa	tcactacacc	1320
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eo1f-seq1

<210> 193
 <211> 651
 <212> DNA
 <213> Homo Sapiens

<400> 193
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 aaaccagggg aagcccctaa gctcctgata tataacgcac ccagtttgca aagtgggggtc 180
 ccatcaagggt tcagtggcag tggatctggg acagatttca ctctcaccat cagcagtctg 240
 caacctgaag attttgcaac ttactactgt caacagagct aactagtcc attcatcact 300
 ttcggccctg ggaccaagggt ggagatcaaa cgaactgtgg ctgcaccatc tgtcttcac 360
 ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttggtgt cctgctgaat 420
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 catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t 651

<210> 194
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

<400> 194
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 gatacttatt tcgactactt tgactactgg ggccaggga ccctgggtcac cgtctcaagc 360
 gcctccacca agggcccatc ggtcttcccg ctagcaccca gcagcaagag caccagcggc 420
 ggaacagccg ccctgggctg cctgggtgaa gactacttcc ccgagcccgt gaccgtgtcc 480
 tggaactctg gcgccctgac cagcggagtg cataccttcc ccgccgtgct gcagagcagc 540
 ggcctgtaca gcctgagcag cgtgggtgaca gtgccagca gcagcctggg aaccagacc 600
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 cccagcgtgt tcctgttccc ccaaagccc aaggacaccc tgatgatcag ccggaccccc 780
 gaagtgcact gcgtgggtgt ggacgtgtcc cagcaggacc cagaagtga gtttaattgg 840
 tacgtggacg gcgtggaagt gcataacgcc aagaccaagc ccagagagga acagtacaac 900
 agcacctacc ggggtggtgtc cgtgctgacc gtgctgcacc aggactggct gaacggcaaa 960

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gagtacaagt gcaaggtctc caacaaggcc ctgcctgccc ccatcgagaa aaccatcagc	1020
aaggccaagg gccagccccg cgagcctcag gtgtacacac tgccccccag ccgggatgag	1080
ctgaccaaga accaggtgtc cctgacctgt ctggtgaaag gcttctaccc cagcgatatc	1140
gccgtggaat gggagagcaa cggccagccc gagaacaatt acaagaccac cccccctgtg	1200
ctggacagcg acggctcatt cttcctgtac tccaagctga ccgtggacaa gagccggtgg	1260
cagcagggca acgtgttcag ctgcagcgtg atgcacgagg ccctgcacaa tcactacacc	1320
cagaagtccc tgagcctgag ccccggc	1347

<210> 195
 <211> 651
 <212> DNA
 <213> Homo Sapiens

<400> 195 gcacaagaca tccagatgac ccagtctcca gccaccctgt ctgcatctgt aggagacaga	60
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aaaccagggga aagcccctaa gctcctgata tataacgcac ccagtttgca aagtgggggtc	180
ccatcaaggt tcagtggcag tggatctggg acagatttca ctctcaccat cagcagtctg	240
caacctgaag attttgcaac ttactactgt caacagagct acactagtcc agggatcact	300
ttcggccctg ggaccaaggt ggagatcaaa cgaactgtgg ctgcaccatc tgtcttcac	360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat	420
aacttctatc ccagagaggc caaagtacag tggaaggtgg ataacgccct ccaatcgggt	480
aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc	540
accctgacgc tgagcaaagc agactacgag aaacacaaac tctacgcctg cgaagtcacc	600
catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t	651

<210> 196
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

<400> 196 gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtggttc tttacgtctt	60
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cctggtaaag gtttgagtg ggtttcttat atctctcctt ctggtggcaa gactcattat	180
gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac	240
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gatacttatt tcgactactt tgactactgg ggccagggaa ccctgggtcac cgtctcaagc	360
gcctccacca agggcccatc ggtcttcccg ctagcaccca gcagcaagag caccagcggc	420
ggaacagccg ccctgggctg cctggtgaaa gactacttcc ccgagcccgt gaccgtgtcc	480
tggaactctg gcgccctgac cagcggagtg cataccttcc ccgccgtgct gcagagcagc	540

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ggcctgtaca	gcctgagcag	cgtggtgaca	gtgcccagca	gcagcctggg	aacccagacc	600
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aagagctgcg	acaagaccca	cacctgtccc	ccctgccctg	cccctgaact	gctgggcgga	720
cccagcgtgt	tcctgttccc	cccaaagccc	aaggacaccc	tgatgatcag	ccggaccccc	780
gaagtgacct	gcgtgggtgt	ggacgtgtcc	cacgaggacc	cagaagtga	gtttaattgg	840
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agcacctacc	gggtggtgtc	cgtgctgacc	gtgctgcacc	aggactggct	gaacggcaaa	960
gagtacaagt	gcaaggtctc	caacaaggcc	ctgcctgccc	ccatcgagaa	aaccatcagc	1020
aaggccaagg	gccagccccg	cgagcctcag	gtgtacacac	tgccccccag	ccgggatgag	1080
ctgaccaaga	accaggtgtc	cctgacctgt	ctggtgaaag	gcttctaccc	cagcgatatc	1140
gccgtggaat	gggagagcaa	cggccagccc	gagaacaatt	acaagaccac	ccccctgtg	1200
ctggacagcg	acggctcatt	cttcctgtac	tccaagctga	ccgtggacaa	gagccggtgg	1260
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cagaagtccc	tgagcctgag	ccccggc				1347

<210> 197
 <211> 651
 <212> DNA
 <213> Homo Sapiens

<400> 197						
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gtcaccatca	cttgccgggc	aagtcagagc	attagcggct	atttaaattg	gtatcagcag	120
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ccatcaaggt	tcagtggcag	tggatctggg	acagatttca	ctctcaccat	cagcagtctg	240
caacctgaag	attttgcaac	ttactactgt	caacagagct	acactagtcc	agggatcact	300
ttcggccctg	ggaccaaggt	ggagatcaaa	cgaactgtgg	ctgcaccatc	tgtcttcatc	360
ttcccgccat	ctgatgagca	gttgaaatct	ggaactgcct	ctgttggtgtg	cctgctgaat	420
aacttctatc	ccagagaggc	caaagtacag	tggaaggtgg	ataacgccct	ccaatcgggt	480
aactcccagg	agagtgtcac	agagcaggac	agcaaggaca	gcacctacag	cctcagcagc	540
accctgacgc	tgagcaaagc	agactacgag	aaacacaaac	tctacgcctg	cgaagtcacc	600
catcagggcc	tgagctcgcc	cgtcacaaag	agcttcaaca	ggggagagtg	t	651

<210> 198
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

<400> 198						
gaagttcaat	tgtagagtc	tggtggcggt	cttgttcagc	ctggtgggtc	tttacgtctt	60
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eo1f-seq1

cctggtaaag	gtttggagtg	ggtttcttat	atctctcctt	ctggtggcaa	gactcattat	180
gctgactccg	ttaaaggctg	cttcactatc	tctagagaca	actctaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	acggccgtgt	attactgtgc	gagagggggg	300
gatacttatt	tcgactactt	tgactactgg	ggccagggaa	ccctggtcac	cgtctcaagc	360
gcctccacca	agggcccatc	ggtcttcccg	ctagcaccca	gcagcaagag	caccagcggc	420
ggaacagccg	ccctgggctg	cctggtgaaa	gactacttcc	ccgagcccgt	gaccgtgtcc	480
tggaactctg	gcgccctgac	cagcggagtg	cataccttcc	ccgccgtgct	gcagagcagc	540
ggcctgtaca	gcctgagcag	cgtggtgaca	gtgcccagca	gcagcctggg	aaccagacc	600
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gaagtgacct	gcgtgggtgt	ggacgtgtcc	cacgaggacc	cagaagtga	gtttaattgg	840
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ctggacagcg	acggctcatt	cttcctgtac	tccaagctga	ccgtggacaa	gagccggtgg	1260
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cagaagtccc	tgagcctgag	ccccggc				1347

<210> 199
 <211> 651
 <212> DNA
 <213> Homo Sapiens

<400> 199	
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aaaccaggga	aagcccctaa gctcctgata tataacgcat ccagtttgca aagtgggggtc 180
ccatcaaggt	tcagtggcag tggatctggg acagatttca ctctcaccat cagcagctctg 240
caacctgaag	attttgcaac ttactactgt caacagagct acactagtcc attcatcact 300
ttcggccctg	ggaccaaggt ggagatcaaa cgaactgtgg ctgcaccatc tgtcttcac 360
ttcccgccat	ctgatgagca gttgaaatct ggaactgcct ctgttggtgt cctgctgaat 420
aacttctatc	ccagagaggc caaagtacag tggaaggtgg ataacgccct ccaatcgggt 480
aactcccagg	agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 540

eolf-seq1

accctgacgc	tgagcaaagc	agactacgag	aaacacaaac	tctacgcctg	cgaagtcacc	600
catcagggcc	tgagctcgcc	cgtcacaaag	agcttcaaca	ggggagagtg	t	651

<210> 200
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

<400> 200		
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tggtggcgg	cttgttcagc	
ctggtggttc	tttacgtctt	
tcttgcgctg	cttccggatt	120
cactttctct	ccttacccta	
tgatgtgggt	tcgccaagct	
cctggtaaag	gtttggagtg	180
ggtttcttat	atctctcctt	
ctggtggcaa	gactcattat	
gctgactccg	ttaaaggctc	240
cttcactatc	tctagagaca	
actctaagaa	tactctctac	
ttgcagatga	acagcttaag	300
ggctgaggac	acggccgtgt	
attactgtgc	gagagggggt	
gatacttatt	tcgactactt	360
tgactactgg	ggccagggaa	
ccctgggtcac	cgtctcaagc	
gcctccacca	agggcccatc	420
ggtcttcccg	ctagcaccca	
gcagcaagag	caccagcggc	
ggaacagccg	ccctgggctg	480
cctggtgaaa	gactacttcc	
ccgagcccgt	gaccgtgtcc	
tggaactctg	gcgccctgac	540
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ccgccgtgct	gcagagcagc	
ggcctgtaca	gcctgagcag	600
cgtggtgaca	gtgcccagca	
gcagcctggg	aaccagacc	
tacatctgca	acgtgaacca	660
caagcccagc	aacaccaagg	
tggacaagaa	ggtggaaccc	
aagagctgcg	acaagaccca	720
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cccctgaact	gctgggcgga	
cccagcgtgt	tcctgttccc	780
cccaaagccc	aaggacaccc	
tgatgatcag	ccggaccccc	
gaagtgacct	gcgtggtggt	840
ggacgtgtcc	cacgaggacc	
cagaagtga	gtttaattgg	
tacgtggacg	gcgtggaagt	900
gcataacgcc	aagaccaagc	
ccagagagga	acagtacaac	
agcacctacc	gggtggtgtc	960
cgtgctgacc	gtgctgcacc	
aggactggct	gaacggcaaa	
gagtacaagt	gcaaggctct	1020
caacaaggcc	ctgcctgccc	
ccatcgagaa	aaccatcagc	
aaggccaagg	gccagccccg	1080
cgagcctcag	gtgtacacac	
tgccccccag	ccgggatgag	
ctgaccaaga	accaggtgtc	1140
cctgacctgt	ctggtgaaag	
gcttctaccc	cagcgatatc	
gccgtggaat	gggagagcaa	1200
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ccgtggacaa	gagccggtgg	
cagcagggca	acgtgttcag	1320
ctgcagcgtg	atgcacgagg	
ccctgcacaa	tcactacacc	
cagaagtccc	tgagcctgag	1347
ccccggc		

<210> 201
 <211> 654
 <212> DNA
 <213> Mus Musculus

<400> 201		
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atcagctgcc	gggccaacaa	120
gagcgtgtcc	accagcagct	
acagctacat	gcactggtat	

eo1f-seq1

cagcagaagc	ccggccagcc	ccccaagctg	ctgattaagt	acgccagcaa	cctggaaagc	180
ggcgtgcccc	ccagattcag	cggcagcggc	tctggcaccg	acttcaccc	gaacatccac	240
cccgtggaag	aagaggacgc	cgccacctac	tactgccagc	acagcagaga	gctgcccttc	300
accttcggca	gcggcaccaa	gctggaaatc	aagcggggccg	atgccgcccc	taccgtgtcc	360
atcttccac	ccagcagcga	gcagctgacc	agcggcggag	ccagcgtcgt	gtgcttcctg	420
aacaacttct	acccaagga	catcaacgtg	aagtgggaaga	tcgacggcag	cgagcggcag	480
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agcaccctga	ccctgaccaa	ggacgagtac	gagcggcaca	acagctacac	atgcgaggcc	600
accacaaga	ccagcaccag	ccccatcgtg	aagtccttca	accggaacga	gtgc	654

<210> 202

<211> 1350

<212> DNA

<213> Mus Musculus

<400> 202

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cacgccaaga	gcctggaatg	gatcggcgtg	atcagcacct	acaacggcta	caccaactac	180
aaccagaagt	tcaagggcaa	ggccaccatg	accgtggaca	agagcagcag	caccgcctac	240
atggaactgg	cccggctgac	cagcgaggac	agcgccatct	actactgcgc	cagagcctac	300
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gtgctggaca	gcgacggcag	ctacttcatg	tacagcaagc	tgcggtgga	aaagaaaaac	1260
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accaccaaga gcttcagccg gacccccggc 1350

<210> 203
<211> 654
<212> DNA
<213> Mus Musculus

<400> 203
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cagcagcggc ctggccagcc cccaagctg ctgattaagt acgccaccaa cctggacagc 180
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atcttcccac ccagcagcga gcagctgacc agcggcggag ccagcgtcgt gtgcttcctg 420
aacaacttct accccaagga catcaacgtg aagtggaga tgcacggcag cgagcggcag 480
aacggcgtgc tgaacagctg gaccgaccag gacagcaagg actccaccta cagcatgagc 540
agcacctga ccctgaccaa ggacgagtag gagcggcaca acagctacac atgcgaggcc 600
accacaaga ccagcaccag ccccatcgtg aagtccttca accggaacga gtgc 654

<210> 204
<211> 1344
<212> DNA
<213> Mus Musculus

<400> 204
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cccgagaagg gcctggaatg gctggccgag atccggctga agtccgacaa ctacgccacc 180
cactacgccg agagcgtgaa gggcaagttc accatcagcc gggacgacag caagagccgg 240
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gtgacctgcg tgggtggtgga cgtgtccgag gacgaccccg acgtgcagat cagttggttc 840
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eo1f-seq1

accctgcggg	tggtgtccgc	cctgcccac	cagcaccagg	actggatgag	cggcaaagaa	960
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cccaagggca	gcgtgcgggc	tccccaggtg	tacgtgctgc	ccccacccga	ggaagagatg	1080
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gaacggaaca	gctacagctg	cagcgtggtg	cacgagggcc	tgcacaacca	ccacaccacc	1320
aagagcttca	gccggacccc	cggc				1344

<210> 205
 <211> 654
 <212> DNA
 <213> Homo Sapiens

<400> 205						
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caacagaaac	caggacagcc	acccaaactc	ctcatcaaat	atgcatccaa	cctagaatct	180
gggggtccctg	ccaggttcag	tggcagtggg	tctgggacag	acttctccct	caacatccat	240
cccatggagg	aggacgatac	cgcaatgtat	ttctgtcagc	acagtaggga	gcttccattc	300
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aacaacttct	accccgcgga	ggccaaggtg	cagtgggaagg	tggacaacgc	cctgcagagc	480
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agcaccctga	ccctgagcaa	ggccgactac	gagaagcaca	aggtgtacgc	ctgcgaagtg	600
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<210> 206
 <211> 1350
 <212> DNA
 <213> Homo Sapiens

<400> 206						
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tcctgcaagg	gttccggcta	cacattcact	gattatggca	tgactgggt	gcggcaggcc	120
cctggacaag	ggctagagtg	gatgggagtt	attagtactt	acaatggtta	tacaaactac	180
aaccagaagt	ttaagggcag	agtcacaatg	actgtagaca	aatccacgag	cacagcctat	240
atggaacttc	ggagcttgag	atctgacgat	acggccgtgt	attactgtgc	aagagcctac	300
tatggcaacc	tttactatgc	tatggactac	tggggctcaag	gaaccctggg	caccgtctcc	360
tcagctagca	ccaaaggccc	gagcgtgttt	ccgctggccc	cgagcagcaa	gagcaccagc	420
ggcggaaacag	ccgccctggg	ctgcctgggtg	aaagactact	tccccgaacc	ggtgaccgtg	480

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tcctggaact	ctggcgccct	gaccagcggg	gtgcatacct	tccccgccgt	gctgcagagc	540
agcggcctgt	acagcctgag	cagcgtggtg	acagtgccca	gcagcagcct	gggaaccagg	600
acctacatct	gcaacgtgaa	ccacaagccc	agcaacacca	aggtggacaa	gaaggtggaa	660
ccaagagct	gcgacaagac	ccacacctgt	ccccctgcc	ctgcccctga	actgctgggc	720
ggacccagcg	tgttcctgtt	ccccccaaag	ccaaggaca	ccctgatgat	cagccggacc	780
cccgaagtga	cctgcgtggt	ggtggacgtg	tcccacgagg	accagaagt	gaagttta	840
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aacagcacct	accgggtggt	gtccgtgctg	accgtgctgc	accaggactg	gctgaacggc	960
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gagctgacca	agaaccaggt	gtccctgacc	tgtctggtga	aaggcttcta	ccccagcgat	1140
atcgccgtgg	aatgggagag	caacggccag	cccgagaaca	attacaagac	cacccccct	1200
gtgctggaca	gcgacggctc	attcttcctg	tactccaagc	tgaccgtgga	caagagccgg	1260
tggcagcagg	gcaacgtgtt	cagctgcagc	gtgatgcacg	aggccctgca	caatcactac	1320
accagaagt	ccctgagcct	gagccccggc				1350

<210> 207
 <211> 654
 <212> DNA
 <213> Homo Sapiens

<400> 207						
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cagcagaagc	ccggcaaggc	ccccaaagctg	ctgattaagt	acgccagcaa	cctggaaagc	180
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agtctgcagc	ccgaggactt	cgccacctac	tactgccagc	acagctggga	gatcccttac	300
accttcggcg	gaggcaccaa	ggtggaaatc	aagcgtacgg	tggtgcacc	atctgtcttc	360
atcttcccg	catctgatga	gcagttgaaa	tctggaactg	cctctgttgt	gtgcctgctg	420
aataacttct	atcccagaga	ggccaaagta	cagtgggaagg	tggataacgc	cctccaatcg	480
ggtaactccc	aggagagtgt	cacagagcag	gacagcaagg	acagcaccta	cagcctcagc	540
agcaccctga	cgctgtctaa	agcagactac	gagaaacaca	aagtctacgc	ctgcgaagtc	600
acccatcagg	gcctgagctc	gcccgtcaca	aagagcttca	acaggggaga	gtgt	654

<210> 208
 <211> 1347
 <212> DNA
 <213> Homo Sapiens

<400> 208						
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agctgtgccg ccagcggctt caccttcagc agctactgga tgagctgggt ccgacaggct	120
ccaggcaagg gcctggaatg ggtggccgag atccggctga agtccgacaa ctacgccacc	180
cactacgccg agagcgtgaa gggccgggtt accatcagcc gggacgacag caagaacagc	240
ctgtacctgc agatgaacag cctgcggggc gaggacaccg ccgtgtacta ctgcaccggc	300
tactacgccg acgccatgga ctactggggc cagggcaccc tggtcaccgt cagctcagcc	360
tccaccaagg gtccatcggg cttccccctg gcaccctcct ccaagagcac ctctgggggc	420
acagcggccc tgggctgcct ggtcaaggac tacttccccg aaccgggtgac ggtgtcgtgg	480
aactcaggcg ccctgaccag cggcgtgcac accttccccg ctgtcctaca gtcctcagga	540
ctctactccc tcagcagcgt ggtgaccgtg ccctccagca gcttgggcac ccagacctac	600
atctgcaacg tgaatcacia gccagcaac accaagggtg acaagcgggt tgagcccaaa	660
tcttgtgaca aaactcacac atgcccaccg tgcccagcac ctgaactcct ggggggaccg	720
tcagtcttcc ttttcccccc aaaaccaag gacaccctca tgatctcccg gaccctgag	780
gtcacatgcg tgggtggtgga cgtgagccac gaagaccctg aggtcaagtt caactggtac	840
gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacaacagc	900
acgtaccggg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa tggcaaggag	960
tacaagtgca aggtctccaa caaagccctc ccagccccca tcgagaaaac catctccaaa	1020
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accaagaacc aggtcagcct gacctgcctg gtcaaaggct tctatcccag cgacatcgcc	1140
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gactccgacg gctccttctt cctctacagc aagctcaccg tggacaagag cagggtggcag	1260
caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag	1320
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<210> 209
 <211> 654
 <212> DNA
 <213> Mus Musculus

<400> 209 gatatcgtgc tgacacagtc tcccgccagc ctggccgtgt ctctcggcca gagagccacc	60
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cagcagcggc ctggacagag cccaagctg ctgattaagt acgccagcaa gctggacagc	180
ggcgtgcccc ccagattttc tggcagcggc agcggcaccg acttcaccct gaacatccac	240
cccgtggaag aagaggacac cgccacctac tactgccagc acagctggga gctgccttac	300
accttcggcg gaggcacccg gctggaaatc aagagggccg atgccgcccc taccgtgtcc	360
atcttcccac ccagcagcga gcagctgacc agcggcggag ccagcgtcgt gtgcttcctg	420
aacaacttct accccaagga catcaacgtg aagtggaaga tcgacggcag cgagcggcag	480

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aacggcgtgc	tgaacagctg	gaccgaccag	gacagcaagg	actccaccta	cagcatgagc	540
agcaccctga	ccctgaccaa	ggacgagtag	gagcggcaca	acagctacac	atgcgaggcc	600
accacaaga	ccagcaccag	ccccatcgtg	aagtccttca	accggaacga	gtgc	654

<210> 210
 <211> 1344
 <212> DNA
 <213> Mus Musculus

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cccgagaagg	180
cactacgccg	240
gtgtacctgc	300
acctatgccg	360
aagaccaccg	420
tctgtgactc	480
aacagcggca	540
tacaccctga	600
tgtaacgtgg	660
cccacccatca	720
agcgtgttca	780
gtgacctgcg	840
gtgaacaacg	900
accctgcggg	960
ttcaagtga	1020
cccaagggca	1080
accaagaagc	1140
gtggaatgga	1200
gacagcgacg	1260
gaacggaaca	1320
aagagcttca	1344

<210> 211
 <211> 654
 <212> DNA
 <213> Mus Musculus

<400> 211	
gatatcgtgc	60

eo1f-seq1

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cagcagaagc	ccggccagcc	ccccaaagctg	ctgatcaagt	acaccagcaa	cctggaaagc	180
ggcgtgcccc	ccagattcag	cggaagcggc	tccggcaccg	acttcatacct	gaacatccac	240
cccgtggaag	aagaggacgc	cgccacctac	tactgccagc	acagcagaga	gctgcccctgg	300
accttcggcg	gaggcaccaa	gctggaaatc	aagcggggccg	atgccgcccc	taccgtgtcc	360
atcttccac	ccagcagcga	gcagctgacc	agcggcggag	ccagcgtcgt	gtgcttcctg	420
aacaacttct	acccaagga	catcaacgtg	aagtgggaaga	tcgacggcag	cgagcggcag	480
aacggcgtgc	tgaacagctg	gaccgaccag	gacagcaagg	actccaccta	cagcatgagc	540
agcaccctga	ccctgaccaa	ggacgagtac	gagcggcaca	acagctacac	atgcgaggcc	600
accacaaga	ccagcaccag	ccccatcgtg	aagtccttca	accggaacga	gtgc	654

<210> 212

<211> 1353

<212> DNA

<213> Mus Musculus

<400> 212

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cagcccagcg	gcaagggcct	ggaatggctg	gccacatct	actgggacga	cgacaagcgg	180
tacaaccca	gcctgaagtc	ccggctgacc	atctccaagg	acaccagccg	gaatcaggtg	240
ttcctgaaga	tcaccagcgt	ggacaccgcc	gataccgcca	cctactactg	cgccagaaga	300
ggccccgact	actacggcta	ctaccccatg	gactattggg	gccagggcac	cagcgtgacc	360
gtgtctgcca	agaccaccgc	ccctagcgtg	taccctctgg	cccctgtgtg	tggcgacacc	420
accggcagct	ctgtgactct	gggctgcctg	gtcaagggct	acttccccga	gcccgtagaca	480
ctgacctgga	acagcggcag	cctgagcagc	ggcgtgcaca	cctttccagc	cgtgctgcag	540
agcgacctgt	acaccctgag	cagctccgtg	accgtgacaa	gcagcacctg	gccagccag	600
agcatcacct	gtaacgtggc	ccacccgcc	agcagcacca	aggtggacaa	gaagatcgag	660
cccagaggcc	ccaccatcaa	gccctgcccc	ccttgcaagt	gccagcccc	caatctgctg	720
ggcggacca	gcgtgttcat	cttcccaccc	aagatcaagg	acgtgctgat	gatcagcctg	780
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tacaacagca	ccctgcgggt	ggtgtccgcc	ctgcccattc	agcaccagga	ctggatgagc	960
ggcaaagaat	tcaagtgcaa	agtgaacaac	aaggacctgc	ctgcccccat	cgagcggacc	1020
atcagcaagc	ccaagggcag	cgtgcgggct	ccccagggtg	acgtgctgcc	cccacccgag	1080
gaagagatga	ccaagaagca	ggtcacactg	acctgcatgg	tcaccgactt	catgcccagag	1140
gacatctacg	tggaatggac	caacaacggc	aagaccgagc	tgaactacaa	gaacaccgag	1200
cctgtgctgg	acagcgacgg	cagctacttc	atgtacagca	agctgcgggt	ggaaaagaaa	1260

eof-seq1

aactgggtgg aacggaacag ctacagctgc agcgtggtgc acgagggcct gcacaaccac 1320
cacaccacca agagcttcag ccggaacccc ggc 1353

<210> 213
<211> 1210
<212> PRT
<213> Homo

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

eolf-seql															
Gly	Leu	Arg	Ser	Leu	Lys	Glu	Ile	Ser	Asp	Gly	Asp	Val	Ile	Ile	Ser
450						455				460					
Gly	Asn	Lys	Asn	Leu	Cys	Tyr	Ala	Asn	Thr	Ile	Asn	Trp	Lys	Lys	Leu
465					470					475					480
Phe	Gly	Thr	Ser	Gly	Gln	Lys	Thr	Lys	Ile	Ile	Ser	Asn	Arg	Gly	Glu
				485					490					495	
Asn	Ser	Cys	Lys	Ala	Thr	Gly	Gln	Val	Cys	His	Ala	Leu	Cys	Ser	Pro
			500					505					510		
Glu	Gly	Cys	Trp	Gly	Pro	Glu	Pro	Arg	Asp	Cys	Val	Ser	Cys	Arg	Asn
		515					520					525			
Val	Ser	Arg	Gly	Arg	Glu	Cys	Val	Asp	Lys	Cys	Asn	Leu	Leu	Glu	Gly
	530					535					540				
Glu	Pro	Arg	Glu	Phe	Val	Glu	Asn	Ser	Glu	Cys	Ile	Gln	Cys	His	Pro
545					550					555					560
Glu	Cys	Leu	Pro	Gln	Ala	Met	Asn	Ile	Thr	Cys	Thr	Gly	Arg	Gly	Pro
				565					570					575	
Asp	Asn	Cys	Ile	Gln	Cys	Ala	His	Tyr	Ile	Asp	Gly	Pro	His	Cys	Val
			580					585					590		
Lys	Thr	Cys	Pro	Ala	Gly	Val	Met	Gly	Glu	Asn	Asn	Thr	Leu	Val	Trp
		595					600					605			
Lys	Tyr	Ala	Asp	Ala	Gly	His	Val	Cys	His	Leu	Cys	His	Pro	Asn	Cys
	610					615					620				
Thr	Tyr	Gly	Cys	Thr	Gly	Pro	Gly	Leu	Glu	Gly	Cys	Pro	Thr	Asn	Gly
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Pro	Lys	Ile	Pro	Ser	Ile	Ala	Thr	Gly	Met	Val	Gly	Ala	Leu	Leu	Leu
				645					650					655	
Leu	Leu	Val	Val	Ala	Leu	Gly	Ile	Gly	Leu	Phe	Met	Arg	Arg	Arg	His
			660					665					670		
Ile	Val	Arg	Lys	Arg	Thr	Leu	Arg	Arg	Leu	Leu	Gln	Glu	Arg	Glu	Leu
		675					680					685			
Val	Glu	Pro	Leu	Thr	Pro	Ser	Gly	Glu	Ala	Pro	Asn	Gln	Ala	Leu	Leu
	690					695					700				
Arg	Ile	Leu	Lys	Glu	Thr	Glu	Phe	Lys	Lys	Ile	Lys	Val	Leu	Gly	Ser
705					710					715					720
Gly	Ala	Phe	Gly	Thr	Val	Tyr	Lys	Gly	Leu	Trp	Ile	Pro	Glu	Gly	Glu
				725					730					735	
Lys	Val	Lys	Ile	Pro	Val	Ala	Ile	Lys	Glu	Leu	Arg	Glu	Ala	Thr	Ser
			740					745					750		
Pro	Lys	Ala	Asn	Lys	Glu	Ile	Leu	Asp	Glu	Ala	Tyr	Val	Met	Ala	Ser
		755					760					765			
Val	Asp	Asn	Pro	His	Val	Cys	Arg	Leu	Leu	Gly	Ile	Cys	Leu	Thr	Ser
	770					775					780				
Thr	Val	Gln	Leu	Ile	Thr	Gln	Leu	Met	Pro	Phe	Gly	Cys	Leu	Leu	Asp
785					790					795					800
Tyr	Val	Arg	Glu	His	Lys	Asp	Asn	Ile	Gly	Ser	Gln	Tyr	Leu	Leu	Asn
				805					810					815	
Trp	Cys	Val	Gln	Ile	Ala	Lys	Gly	Met	Asn	Tyr	Leu	Glu	Asp	Arg	Arg
			820					825					830		
Leu	Val	His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Val	Lys	Thr	Pro
		835					840					845			
Gln	His	Val	Lys	Ile	Thr	Asp	Phe	Gly	Leu	Ala	Lys	Leu	Leu	Gly	Ala
	850					855					860				
Glu	Glu	Lys	Glu	Tyr	His	Ala	Glu	Gly	Gly	Lys	Val	Pro	Ile	Lys	Trp
865					870					875					880
Met	Ala	Leu	Glu	Ser	Ile	Leu	His	Arg	Ile	Tyr	Thr	His	Gln	Ser	Asp
				885					890					895	
Val	Trp	Ser	Tyr	Gly	Val	Thr	Val	Trp	Glu	Leu	Met	Thr	Phe	Gly	Ser
			900					905					910		
Lys	Pro	Tyr	Asp	Gly	Ile	Pro	Ala	Ser	Glu	Ile	Ser	Ser	Ile	Leu	Glu
		915					920					925			
Lys	Gly	Glu	Arg	Leu	Pro	Gln	Pro	Pro	Ile	Cys	Thr	Ile	Asp	Val	Tyr
	930					935					940				
Met	Ile	Met	Val	Lys	Cys	Trp	Met	Ile	Asp	Ala	Asp	Ser	Arg	Pro	Lys
945					950					955					960
Phe	Arg	Glu	Leu	Ile	Ile	Glu	Phe	Ser	Lys	Met	Ala	Arg	Asp	Pro	Gln
				965					970					975	
Arg	Tyr	Leu	Val	Ile	Gln	Gly	Asp	Glu	Arg	Met	His	Leu	Pro	Ser	Pro
			980					985					990		

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Thr Asp Ser Asn Phe Tyr Arg Ala Leu Met Asp Glu Asp Met Asp
 995 1000 1005
 Asp Val Val Asp Ala Asp Glu Tyr Leu Ile Pro Gln Gln Gly Phe Phe
 1010 1015 1020
 Ser Ser Pro Ser Thr Ser Arg Thr Pro Leu Leu Ser Ser Leu Ser Ala
 1025 1030 1035 1040
 Thr Ser Asn Asn Ser Thr Val Ala Cys Ile Asp Arg Asn Gly Leu Gln
 1045 1050 1055
 Ser Cys Pro Ile Lys Glu Asp Ser Phe Leu Gln Arg Tyr Ser Ser Asp
 1060 1065 1070
 Pro Thr Gly Ala Leu Thr Glu Asp Ser Ile Asp Asp Thr Phe Leu Pro
 1075 1080 1085
 Val Pro Glu Tyr Ile Asn Gln Ser Val Pro Lys Arg Pro Ala Gly Ser
 1090 1095 1100
 Val Gln Asn Pro Val Tyr His Asn Gln Pro Leu Asn Pro Ala Pro Ser
 1105 1110 1115 1120
 Arg Asp Pro His Tyr Gln Asp Pro His Ser Thr Ala Val Gly Asn Pro
 1125 1130 1135
 Glu Tyr Leu Asn Thr Val Gln Pro Thr Cys Val Asn Ser Thr Phe Asp
 1140 1145 1150
 Ser Pro Ala His Trp Ala Gln Lys Gly Ser His Gln Ile Ser Leu Asp
 1155 1160 1165
 Asn Pro Asp Tyr Gln Gln Asp Phe Phe Pro Lys Glu Ala Lys Pro Asn
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 1185 1190 1195 1200
 Ala Pro Gln Ser Ser Glu Phe Ile Gly Ala
 1205 1210

<210> 214
 <211> 622
 <212> PRT
 <213> Homo sapiens

<400> 214

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

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Gln	Arg	Ser	260	Arg	Asp	Pro	Ser	265	Trp	Arg	Gln	Pro	Glu	270	Arg	Thr	Ile
Leu	Arg	Pro	275	Arg	Phe	Arg	Arg	280	Glu	Val	Glu	Lys	Thr	285	Ala	Cys	Pro
Gly	Lys	Lys	290	Ala	Arg	Glu	Ile	295	Asp	Glu	Ser	Leu	Ile	300	Phe	Tyr	Lys
305	Trp	Glu	Leu	Glu	Ala	Cys	Val	310	Asp	Ala	Ala	Leu	Leu	315	Ala	Thr	Gln
				325	Ile	Pro	Phe	330	Thr	Tyr	Glu	Gln	Leu	335	Asp	Val	Leu
Asp	Arg	Val	Asn	340	Leu	Asp	Glu	345	Tyr	Pro	Gln	Gly	Tyr	350	Pro	Glu	Ser
Lys	His	Lys	355	Leu	Gly	Tyr	Leu	360	Phe	Leu	Lys	Met	Ser	365	Pro	Glu	Asp
Ile	Gln	His	370	Leu	Gly	Tyr	Leu	375	Phe	Leu	Lys	Met	Ser	380	Pro	Glu	Asp
Arg	Lys	Trp	Asn	390	Val	Thr	Ser	395	Leu	Glu	Thr	Leu	Lys	400	Ala	Leu	Glu
385	Val	Asn	Lys	Gly	His	Glu	Met	410	Ser	Pro	Gln	Val	Ala	415	Thr	Leu	Ile
				420	Arg	Gly	Gln	425	Leu	Asp	Lys	Asp	Thr	430	Leu	Asp	Thr
Leu	Thr	Ala	Phe	435	Tyr	Pro	Gly	440	Tyr	Leu	Cys	Ser	Leu	445	Ser	Pro	Glu
Leu	Ser	Ser	Val	450	Pro	Pro	Ser	455	Ser	Ile	Trp	Ala	Val	460	Arg	Pro	Gln
465	Leu	Asp	Thr	Cys	Asp	Pro	Arg	470	Gln	Leu	Asp	Val	Leu	475	Tyr	Pro	Lys
Arg	Leu	Ala	Phe	485	Gln	Asn	Met	490	Asn	Gly	Ser	Glu	Tyr	495	Phe	Val	Lys
				500	Gly	Gly	Ala	505	Thr	Glu	Asp	Leu	Lys	510	Ala	Leu	Ser
Gln	Gln	Asn	515	Val	Ser	Met	Asp	520	Leu	Ala	Thr	Phe	Met	525	Lys	Leu	Arg
Asp	Ala	Val	530	Leu	Pro	Leu	Thr	535	Val	Ala	Glu	Val	Gln	540	Lys	Leu	Gly
Pro	His	Val	545	Glu	Gly	Leu	Lys	550	Ala	Glu	Glu	Arg	His	555	Arg	Pro	Val
Asp	Trp	Ile	565	Leu	Arg	Gln	Arg	570	Asp	Leu	Asp	Thr	Leu	575	Gly	Leu	Ser
Gly	Leu	Gln	580	Gly	Gly	Ile	Pro	585	Gly	Tyr	Leu	Val	Leu	590	Asp	Leu	Ser
Met	Gln	Glu	595	Ala	Leu	Ser	Gly	600	Thr	Pro	Cys	Leu	Leu	605	Gly	Pro	Gly
Val	Leu	Thr	610	Val	Leu	Ala	Leu	615	Leu	Ala	Ser	Thr	Leu	620	Ala		

<210> 215

<211> 459

<212> PRT

<213> Homo sapiens

<400> 215

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

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

<210> 216
 <211> 346
 <212> PRT
 <213> Homo sapiens

<400> 216

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

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

<210> 217
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 217
 Met Lys Arg Phe Leu Phe Leu Leu Leu Thr Ile Ser Leu Leu Val Met
 1 5 10 15
 Val Gln Ile Gln Thr Gly Leu Ser Gly Gln Asn Asp Thr Ser Gln Thr
 20 25 30
 Ser Ser Pro Ser Ala Ser Ser Asn Ile Ser Gly Gly Ile Phe Leu Phe
 35 40 45
 Phe Val Ala Asn Ala Ile Ile His Leu Phe Cys Phe Ser
 50 55 60

<210> 218
 <211> 1255
 <212> PRT
 <213> Homo sapiens

<400> 218
 Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu
 1 5 10 15
 Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys
 20 25 30
 Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
 35 40 45
 Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr
 50 55 60
 Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
 65 70 75 80
 Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu
 85 90 95
 Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
 100 105 110
 Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro
 115 120 125
 Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser
 130 135 140
 Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln
 145 150 155 160
 Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn

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705	Arg	Lys	Val	Lys	Val	710	Leu	Gly	Ser	Gly	Ala	715	Phe	Gly	Thr	Val	Tyr	720	Lys
					725							730						735	
	Gly	Ile	Trp	Ile	Pro	Asp	Gly	Glu	Asn	Val	Lys	Ile	Pro	Val	Ala	Ile			
				740															
	Lys	Val	Leu	Arg	Glu	Asn	Thr	Ser	Pro	Lys	Ala	Asn	Lys	Glu	Ile	Leu			
			755																
	Asp	Glu	Ala	Tyr	Val	Met	Ala	Gly	Val	Gly	Ser	Pro	Tyr	Val	Ser	Arg			
			770																
	Leu	Leu	Gly	Ile	Cys	Leu	Thr	Ser	Thr	Val	Gln	Leu	Val	Thr	Gln	Leu			
					790														
	Met	Pro	Tyr	Gly	Cys	Leu	Leu	Asp	His	Val	Arg	Glu	Asn	Arg	Gly	Arg			
				805															
	Leu	Gly	Ser	Gln	Asp	Leu	Leu	Asn	Trp	Cys	Met	Gln	Ile	Ala	Lys	Gly			
				820															
	Met	Ser	Tyr	Leu	Glu	Asp	Val	Arg	Leu	Val	His	Arg	Asp	Leu	Ala	Ala			
			835																
	Arg	Asn	Val	Leu	Val	Lys	Ser	Pro	Asn	His	Val	Lys	Ile	Thr	Asp	Phe			
							855												
	Gly	Leu	Ala	Arg	Leu	Leu	Asp	Ile	Asp	Glu	Thr	Glu	Tyr	His	Ala	Asp			
					870														
	Gly	Gly	Lys	Val	Pro	Ile	Lys	Trp	Met	Ala	Leu	Glu	Ser	Ile	Leu	Arg			
					885														
	Arg	Arg	Phe	Thr	His	Gln	Ser	Asp	Val	Trp	Ser	Tyr	Gly	Val	Thr	Val			
				900															
	Trp	Glu	Leu	Met	Thr	Phe	Gly	Ala	Lys	Pro	Tyr	Asp	Gly	Ile	Pro	Ala			
				915															
	Arg	Glu	Ile	Pro	Asp	Leu	Leu	Glu	Lys	Gly	Glu	Arg	Leu	Pro	Gln	Pro			
						935													
	Pro	Ile	Cys	Thr	Ile	Asp	Val	Tyr	Met	Ile	Met	Val	Lys	Cys	Trp	Met			
						950													
	Ile	Asp	Ser	Glu	Cys	Arg	Pro	Arg	Phe	Arg	Glu	Leu	Val	Ser	Glu	Phe			
					965														
	Ser	Arg	Met	Ala	Arg	Asp	Pro	Gln	Arg	Phe	Val	Val	Ile	Gln	Asn	Glu			
				980															
	Asp	Leu	Gly	Pro	Ala	Ser	Pro	Leu	Asp	Ser	Thr	Phe	Tyr	Arg	Ser	Leu			
				995															
	Leu	Glu	Asp	Asp	Met	Gly	Asp	Leu	Val	Asp	Ala	Glu	Glu	Tyr	Leu				
						1015													
	Val	Pro	Gln	Gln	Gly	Phe	Phe	Cys	Pro	Asp	Pro	Ala	Pro	Gly	Ala	Gly			
						1030													
	Gly	Met	Val	His	His	Arg	His	Arg	Ser	Ser	Thr	Arg	Ser	Gly	Gly				
					1045														
	Gly	Asp	Leu	Thr	Leu	Gly	Leu	Glu	Pro	Ser	Glu	Glu	Glu	Ala	Pro	Arg			
					1060														
	Ser	Pro	Leu	Ala	Pro	Ser	Glu	Gly	Ala	Gly	Ser	Asp	Val	Phe	Asp	Gly			
	Asp	Leu	Gly	Met	Gly	Ala	Ala	Lys	Gly	Leu	Gln	Ser	Leu	Pro	Thr	His			
	Asp	Pro	Ser	Pro	Leu	Gln	Arg	Tyr	Ser	Glu	Asp	Pro	Thr	Val	Pro	Leu			
						1110													
	Pro	Ser	Glu	Thr	Asp	Gly	Tyr	Val	Ala	Pro	Leu	Thr	Cys	Ser	Pro	Gln			
					1125														
	Pro	Glu	Tyr	Val	Asn	Gln	Pro	Asp	Val	Arg	Pro	Gln	Pro	Pro	Ser	Pro			
	Arg	Glu	Gly	Pro	Leu	Pro	Ala	Ala	Arg	Pro	Ala	Gly	Ala	Thr	Leu	Glu			
	Arg	Pro	Lys	Thr	Leu	Ser	Pro	Gly	Lys	Asn	Gly	Val	Val	Lys	Asp	Val			
	Phe	Ala	Phe	Gly	Gly	Ala	Val	Glu	Asn	Pro	Glu	Tyr	Leu	Thr	Pro	Gln			
	Gly	Gly	Ala	Ala	Pro	Gln	Pro	His	Pro	Pro	Pro	Ala	Phe	Ser	Pro	Ala			
	Phe	Asp	Asn	Leu	Tyr	Tyr	Trp	Asp	Gln	Asp	Pro	Pro	Glu	Arg	Gly	Ala			
	Pro	Pro	Ser	Thr	Phe	Lys	Gly	Thr	Pro	Thr	Ala	Glu	Asn	Pro	Glu	Tyr			
	Leu	Gly	Leu	Asp	Val	Pro	Val												

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1250

1255

<210> 219
<211> 297
<212> PRT
<213> Homo sapiens

<400> 219
Met Thr Thr Pro Arg Asn Ser Val Asn Gly Thr Phe Pro Ala Glu Pro
1 5 10 15
Met Lys Gly Pro Ile Ala Met Gln Ser Gly Pro Lys Pro Leu Phe Arg
20 25 30
Arg Met Ser Ser Leu Val Gly Pro Thr Gln Ser Phe Phe Met Arg Glu
35 40 45
Ser Lys Thr Leu Gly Ala Val Gln Ile Met Asn Gly Leu Phe His Ile
50 55 60
Ala Leu Gly Gly Leu Leu Met Ile Pro Ala Gly Ile Tyr Ala Pro Ile
65 70 75
Cys Val Thr Val Trp Tyr Pro Leu Trp Gly Gly Ile Met Tyr Ile Ile
85 90 95
Ser Gly Ser Leu Leu Ala Ala Thr Glu Lys Asn Ser Arg Lys Cys Leu
100 105 110
Val Lys Gly Lys Met Ile Met Asn Ser Leu Ser Leu Phe Ala Ala Ile
115 120 125
Ser Gly Met Ile Leu Ser Ile Met Asp Ile Leu Asn Ile Lys Ile Ser
130 135 140
His Phe Leu Lys Met Glu Ser Leu Asn Phe Ile Arg Ala His Thr Pro
145 150 155 160
Tyr Ile Asn Ile Tyr Asn Cys Glu Pro Ala Asn Pro Ser Glu Lys Asn
165 170 175
Ser Pro Ser Thr Gln Tyr Cys Tyr Ser Ile Gln Ser Leu Phe Leu Gly
180 185 190
Ile Leu Ser Val Met Leu Ile Phe Ala Phe Phe Gln Glu Leu Val Ile
195 200 205
Ala Gly Ile Val Glu Asn Glu Trp Lys Arg Thr Cys Ser Arg Pro Lys
210 215 220
Ser Asn Ile Val Leu Leu Ser Ala Glu Glu Lys Lys Glu Gln Thr Ile
225 230 235 240
Glu Ile Lys Glu Glu Val Val Gly Leu Thr Glu Thr Ser Ser Gln Pro
245 250 255
Lys Asn Glu Glu Asp Ile Glu Ile Ile Pro Ile Gln Glu Glu Glu
260 265 270
Glu Glu Thr Glu Thr Asn Phe Pro Glu Pro Pro Gln Asp Gln Glu Ser
275 280 285
Ser Pro Ile Glu Asn Asp Ser Ser Pro
290 295

<210> 220
<211> 595
<212> PRT
<213> Homo sapiens

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

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Ser	Val	115	Pro	Ala	Gly	Met	120	Ile	Val	Lys	Phe	Pro	125	Gly	Thr	Ala	Gln
Lys	Asn	130	Thr	Val	Cys	Glu	135	Pro	Ala	Ser	Pro	Gly	140	Val	Ser	Pro	Ala
145	Ala	Ser	Pro	Glu	Asn	150	Cys	Lys	Glu	Pro	Ser	155	Ser	Gly	Thr	Ile	Pro
Ala	Lys	Pro	Thr	165	Pro	Val	Ser	Pro	Ala	170	Thr	Ser	Ser	Ala	Ser	175	Met
Pro	Val	Arg	Gly	Gly	Thr	Arg	Leu	185	Ala	Gln	Glu	Ala	190	Ala	Ser	Lys	Leu
Thr	Arg	195	Ala	Pro	Asp	Ser	Pro	200	Ser	Ser	Val	Gly	Arg	205	Pro	Ser	Ser
Pro	Gly	210	Leu	Ser	Pro	Thr	215	Gln	Pro	Cys	Pro	Glu	220	Gly	Ser	Gly	Asp
Arg	Lys	Gln	Cys	Glu	Pro	Asp	Tyr	230	Tyr	Leu	Asp	Glu	235	Ala	Gly	Arg	Cys
Thr	Ala	Cys	Val	245	Ser	Cys	Ser	Arg	Asp	250	Asp	Leu	Val	Glu	Lys	Thr	Pro
Cys	Ala	Trp	260	Asn	Ser	Ser	Arg	Thr	265	Cys	Glu	Cys	Arg	Pro	Gly	Met	Ile
Cys	Ala	Thr	275	Ser	Ala	Thr	Asn	280	Ser	Arg	Ala	Arg	Cys	Val	Pro	Tyr	Pro
Ile	Cys	Ala	Ala	Glu	Thr	Val	295	Thr	Lys	Pro	Gln	Asp	300	Met	Ala	Glu	Lys
Asp	Thr	Thr	Phe	310	Glu	Ala	Pro	Pro	Leu	Gly	Thr	Gln	315	Pro	Asp	Cys	Asn
Pro	Thr	Pro	Glu	325	Asn	Gly	Glu	Ala	Pro	330	Ala	Ser	Thr	Ser	Pro	Thr	Gln
Ser	Leu	Leu	Val	340	Asp	Ser	Gln	Ala	Ser	345	Lys	Thr	Leu	Pro	Ile	Pro	Thr
Ser	Ala	Pro	Val	355	Ala	Leu	Ser	360	Thr	Gly	Lys	Pro	365	Val	Leu	Asp	Ala
Gly	Pro	Val	Leu	Phe	Trp	Val	Ile	Leu	Val	375	Leu	Val	380	Val	Val	Val	Gly
385	Ser	Ser	Ala	Phe	Leu	405	Cys	His	Arg	410	Ala	Cys	Arg	Lys	Arg	415	Ile
Arg	Gln	Lys	Leu	His	Leu	Cys	Tyr	Pro	Val	425	Gln	Thr	Ser	Gln	Pro	Lys	430
Leu	Glu	Leu	Val	Asp	Ser	Arg	Pro	440	Arg	Arg	Ser	Ser	Thr	Gln	Leu	Arg	445
Ser	Gly	Ala	Ser	Val	Thr	Glu	Pro	Val	Ala	Glu	Glu	Arg	Gly	Leu	Met		
450	Ser	Gln	Pro	Leu	Met	Glu	Thr	Cys	His	Ser	Val	Gly	Ala	Ala	Tyr	Leu	
465	Glu	Ser	Leu	Pro	Leu	Gln	Asp	Ala	Ser	Pro	Ala	Gly	Gly	Pro	Ser	Ser	
Pro	Arg	Asp	Leu	Pro	Glu	Pro	Arg	Val	Ser	Thr	Glu	His	Thr	Asn	Asn		
Lys	Ile	Glu	Lys	Ile	Tyr	Ile	Met	Lys	Ala	Asp	Thr	Val	Ile	Val	Gly		
Thr	Val	Lys	Ala	Glu	Leu	Pro	Glu	Gly	Arg	Gly	Leu	Ala	Gly	Pro	Ala		
Glu	Pro	Glu	Leu	Glu	Glu	Glu	Leu	Glu	Ala	Asp	His	Thr	Pro	His	Tyr		
545	Pro	Glu	Gln	Glu	Thr	Glu	Pro	Pro	Leu	Gly	Ser	Cys	Ser	Asp	Val	Met	
Leu	Ser	Val	Glu	Glu	Glu	Gly	Lys	Glu	Asp	Pro	Leu	Pro	Thr	Ala	Ala		
ser	Gly	Lys	580					585					590				
		595															

<210> 221
 <211> 847
 <212> PRT
 <213> Homo sapiens

<400> 221

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Met	His	Leu	Leu	Gly	Pro	Trp	Leu	Leu	Leu	Leu	Val	Leu	Glu	Tyr	Leu
1				5					10					15	
Ala	Phe	Ser	Asp	Ser	Ser	Lys	Trp	Val	Phe	Glu	His	Pro	Glu	Thr	Leu
			20					25					30		
Tyr	Ala	Trp	Glu	Gly	Ala	Cys	Val	Trp	Ile	Pro	Cys	Thr	Tyr	Arg	Ala
		35					40					45			
Leu	Asp	Gly	Asp	Leu	Glu	Ser	Phe	Ile	Leu	Phe	His	Asn	Pro	Glu	Tyr
	50					55					60				
Asn	Lys	Asn	Thr	Ser	Lys	Phe	Asp	Gly	Thr	Arg	Leu	Tyr	Glu	Ser	Thr
65					70					75					80
Lys	Asp	Gly	Lys	Val	Pro	Ser	Glu	Gln	Lys	Arg	Val	Gln	Phe	Leu	Gly
				85					90					95	
Asp	Lys	Asn	Lys	Asn	Cys	Thr	Leu	Ser	Ile	His	Pro	Val	His	Leu	Asn
			100					105					110		
Asp	Ser	Gly	Gln	Leu	Gly	Leu	Arg	Met	Glu	Ser	Lys	Thr	Glu	Lys	Trp
		115					120					125			
Met	Glu	Arg	Ile	His	Leu	Asn	Val	Ser	Glu	Arg	Pro	Phe	Pro	Pro	His
	130					135					140				
Ile	Gln	Leu	Pro	Pro	Glu	Ile	Gln	Glu	Ser	Gln	Glu	Val	Thr	Leu	Thr
145					150					155					160
Cys	Leu	Leu	Asn	Phe	Ser	Cys	Tyr	Gly	Tyr	Pro	Ile	Gln	Leu	Gln	Trp
				165					170					175	
Leu	Leu	Glu	Gly	Val	Pro	Met	Arg	Gln	Ala	Ala	Val	Thr	Ser	Thr	Ser
			180					185					190		
Leu	Thr	Ile	Lys	Ser	Val	Phe	Thr	Arg	Ser	Glu	Leu	Lys	Phe	Ser	Pro
		195					200					205			
Gln	Trp	Ser	His	His	Gly	Lys	Ile	Val	Thr	Cys	Gln	Leu	Gln	Asp	Ala
	210					215					220				
Asp	Gly	Lys	Phe	Leu	Ser	Asn	Asp	Thr	Val	Gln	Leu	Asn	Val	Lys	His
225					230					235					240
Thr	Pro	Lys	Leu	Glu	Ile	Lys	Val	Thr	Pro	Ser	Asp	Ala	Ile	Val	Arg
				245					250					255	
Glu	Gly	Asp	Ser	Val	Thr	Met	Thr	Cys	Glu	Val	Ser	Ser	Ser	Asn	Pro
			260					265					270		
Glu	Tyr	Thr	Thr	Val	Ser	Trp	Leu	Lys	Asp	Gly	Thr	Ser	Leu	Lys	Lys
		275					280					285			
Gln	Asn	Thr	Phe	Thr	Leu	Asn	Leu	Arg	Glu	Val	Thr	Lys	Asp	Gln	Ser
	290					295					300				
Gly	Lys	Tyr	Cys	Cys	Gln	Val	Ser	Asn	Asp	Val	Gly	Pro	Gly	Arg	Ser
305					310					315					320
Glu	Glu	Val	Phe	Leu	Gln	Val	Gln	Tyr	Ala	Pro	Glu	Pro	Ser	Thr	Val
				325					330					335	
Gln	Ile	Leu	His	Ser	Pro	Ala	Val	Glu	Gly	Ser	Gln	Val	Glu	Phe	Leu
			340					345					350		
Cys	Met	Ser	Leu	Ala	Asn	Pro	Leu	Pro	Thr	Asn	Tyr	Thr	Trp	Tyr	His
		355					360					365			
Asn	Gly	Lys	Glu	Met	Gln	Gly	Arg	Thr	Glu	Glu	Lys	Val	His	Ile	Pro
	370					375					380				
Lys	Ile	Leu	Pro	Trp	His	Ala	Gly	Thr	Tyr	Ser	Cys	Val	Ala	Glu	Asn
385					390					395					400
Ile	Leu	Gly	Thr	Gly	Gln	Arg	Gly	Pro	Gly	Ala	Glu	Leu	Asp	Val	Gln
				405					410					415	
Tyr	Pro	Pro	Lys	Lys	Val	Thr	Thr	Val	Ile	Gln	Asn	Pro	Met	Pro	Ile
			420					425					430		
Arg	Glu	Gly	Asp	Thr	Val	Thr	Leu	Ser	Cys	Asn	Tyr	Asn	Ser	Ser	Asn
		435					440					445			
Pro	Ser	Val	Thr	Arg	Tyr	Glu	Trp	Lys	Pro	His	Gly	Ala	Trp	Glu	Glu
						455					460				
Pro	Ser	Leu	Gly	Val	Leu	Lys	Ile	Gln	Asn	Val	Gly	Trp	Asp	Asn	Thr
465					470					475					480
Thr	Ile	Ala	Cys	Ala	Ala	Cys	Asn	Ser	Trp	Cys	Ser	Trp	Ala	Ser	Pro
				485					490					495	
Val	Ala	Leu	Asn	Val	Gln	Tyr	Ala	Pro	Arg	Asp	Val	Arg	Val	Arg	Lys
			500					505					510		
Ile	Lys	Pro	Leu	Ser	Glu	Ile	His	Ser	Gly	Asn	Ser	Val	Ser	Leu	Gln
		515					520					525			
Cys	Asp	Phe	Ser	Ser	Ser	His	Pro	Lys	Glu	Val	Gln	Phe	Phe	Trp	Glu
	530					535					540				

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Lys 545	Asn	Gly	Arg	Leu	Leu 550	Gly	Lys	Glu	Ser	Gln 555	Leu	Asn	Phe	Asp	Ser 560
Ile	Ser	Pro	Glu	Asp 565	Ala	Gly	Ser	Tyr	Ser 570	Cys	Trp	Val	Asn	Asn 575	Ser
Ile	Gly	Gln	Thr 580	Ala	Ser	Lys	Ala	Trp 585	Thr	Leu	Glu	Val	Leu 590	Tyr	Ala
Pro	Arg	Arg 595	Leu	Arg	Val	Ser	Met 600	Ser	Pro	Gly	Asp	Gln 605	Val	Met	Glu
Gly	Lys 610	Ser	Ala	Thr	Leu	Thr 615	Cys	Glu	Ser	Asp	Ala 620	Asn	Pro	Pro	Val
Ser 625	His	Tyr	Thr	Trp	Phe 630	Asp	Trp	Asn	Asn	Gln 635	Ser	Leu	Pro	Tyr	His 640
Ser	Gln	Lys	Leu	Arg 645	Leu	Glu	Pro	Val	Lys 650	Val	Gln	His	Ser	Gly 655	Ala
Tyr	Trp	Cys	Gln 660	Gly	Thr	Asn	Ser	Val 665	Gly	Lys	Gly	Arg	Ser 670	Pro	Leu
Ser	Thr 675	Leu	Thr	Val	Tyr	Tyr	Ser 680	Pro	Glu	Thr	Ile	Gly 685	Arg	Arg	Val
Ala	Val 690	Gly	Leu	Gly	Ser	Cys 695	Leu	Ala	Ile	Leu	Ile 700	Leu	Ala	Ile	Cys
Gly 705	Leu	Lys	Leu	Gln	Arg 710	Arg	Trp	Lys	Arg	Thr 715	Gln	Ser	Gln	Gln	Gly 720
Leu	Gln	Glu	Asn	Ser 725	Ser	Gly	Gln	Ser	Phe 730	Phe	Val	Arg	Asn	Lys 735	Lys
Val	Arg	Arg	Ala 740	Pro	Leu	Ser	Glu	Gly 745	Pro	His	Ser	Leu	Gly 750	Cys	Tyr
Asn	Pro	Met 755	Met	Glu	Asp	Gly	Ile 760	Ser	Tyr	Thr	Thr	Leu	Arg 765	Phe	Pro
Glu	Met 770	Asn	Ile	Pro	Arg	Thr 775	Gly	Asp	Ala	Glu	Ser 780	Ser	Glu	Met	Gln
Arg 785	Pro	Pro	Pro	Asp	Cys 790	Asp	Asp	Thr	Val	Thr 795	Tyr	Ser	Ala	Leu	His 800
Lys	Arg	Gln	Val	Gly 805	Asp	Tyr	Glu	Asn	Val 810	Ile	Pro	Asp	Phe	Pro 815	Glu
Asp	Glu	Gly	Ile 820	His	Tyr	Ser	Glu	Leu 825	Ile	Gln	Phe	Gly	Val 830	Gly	Glu
Arg	Pro	Gln 835	Ala	Gln	Glu	Asn	Val 840	Asp	Tyr	Val	Ile	Leu 845	Lys	His	

<210> 222

<211> 364

<212> PRT

<213> Homo sapiens

<400> 222

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

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His	Ser	Ser	180	Val	Leu	Ile	Ile	Thr	185	Pro	Arg	Pro	Gln	Asp	190	His	Gly	Thr
Asn	Leu	Thr	195	Cys	Gln	Val	Lys	Phe	200	Ala	Gly	Ala	Gly	Val	205	Thr	Thr	Glu
Arg	Thr	Ile	210	Gln	Leu	Asn	Val	Thr	215	Tyr	Val	Pro	Gln	Asn	220	Pro	Thr	Thr
225	Gly	Ile	Phe	Pro	Gly	230	Asp	Gly	Ser	Gly	Lys	Gln	Glu	Thr	235	Arg	Ala	Gly
Val	Val	His	245	Gly	Ala	Ile	Gly	Gly	Ala	Gly	Val	Thr	Ala	Leu	250	Leu	Ala	Ala
Leu	Cys	Leu	260	Cys	Leu	Ile	Phe	Phe	265	Ile	Val	Lys	Thr	His	270	Arg	Arg	Lys
Ala	Ala	Arg	275	Thr	Ala	Val	Gly	Arg	280	Asn	Asp	Thr	His	285	Pro	Thr	Thr	Gly
Ser	Ala	Ser	290	Pro	Lys	His	Gln	Lys	295	Lys	Ser	Lys	Leu	300	His	Gly	Pro	Thr
305	Glu	Thr	Ser	Ser	Cys	310	Ser	Gly	Ala	Ala	Pro	Thr	Val	315	Glu	Met	Asp	Glu
Glu	Leu	His	325	Tyr	Ala	Ser	Leu	Asn	330	Phe	His	Gly	Met	335	Asn	Pro	Ser	Lys
Asp	Thr	Ser	340	Thr	Glu	Tyr	Ser	Glu	345	Val	Arg	Thr	Gln	350				
		355						360										

<210> 223

<211> 572

<212> PRT

<213> Homo sapiens

<400> 223

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

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

<210> 224
 <211> 848
 <212> PRT
 <213> Homo sapiens

<400> 224

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

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Ala 210	Asn	Leu	Gly	Gln	Ser	215	Val	Thr	Leu	Val	Cys	220	Ala	Glu	Gly	Phe
225	Pro	Glu	Pro	Thr	Met	230	Ser	Trp	Thr	Lys	Asp	235	Gly	Glu	Gln	Ile
					245		Lys	Tyr	Ile	Phe	250	Ser	Asp	Asp	Ser	255
Glu	Glu	Asp	Asp	Glu	260	Val	Asp	Lys	Asn	280	Asp	Glu	Ala	Glu	Tyr	270
Thr	Ile	Lys	Lys	Val	275					285						285
Ala	Glu	Asn	Lys	Ala	Gly	Glu	Gln	Asp	Ala	Thr	Ile	His	Leu	Lys	Val	
290	Phe	Ala	Lys	Pro	Lys	Ile	Thr	Tyr	Val	Glu	Asn	300	Gln	Thr	Ala	Met
305	Leu	Glu	Glu	Gln	Val	310	Thr	Leu	Thr	Cys	Glu	315	Ala	Ser	Gly	Asp
					325						330					335
Pro	Ser	Ile	Thr	Trp	Arg	Thr	Ser	Thr	Arg	Asn	Ile	Ser	Ser	Ser	Glu	Glu
					340											350
Lys	Thr	Leu	Asp	Gly	His	Met	Val	Val	Arg	Ser	His	Ala	Arg	Val	Ser	
					355											365
Ser	Leu	Thr	Leu	Lys	Ser	Ile	Gln	Tyr	Thr	Asp	Ala	Gly	Glu	Tyr	Ile	
370	Cys	Thr	Ala	Ser	Asn	Thr	Ile	Gly	Gln	Asp	Ser	Gln	Ser	Met	Tyr	Leu
385					390											400
Glu	Val	Gln	Tyr	Ala	Pro	Lys	Leu	Gln	Gly	Pro	Val	Ala	Val	Tyr	Thr	
				405												415
Trp	Glu	Gly	Asn	Gln	Val	Asn	Ile	Thr	Cys	Glu	Val	Phe	Ala	Tyr	Pro	
				420												430
Ser	Ala	Thr	Ile	Ser	Trp	Phe	Arg	Asp	Gly	Gln	Leu	Leu	Pro	Ser	Ser	
				435												445
Asn	Tyr	Ser	Asn	Ile	Lys	Ile	Tyr	Asn	Thr	Pro	Ser	Ala	Ser	Tyr	Leu	
450																460
Glu	Val	Thr	Pro	Asp	Ser	Glu	Asn	Asp	Phe	Gly	Asn	Tyr	Asn	Cys	Thr	
465					470											480
Ala	Val	Asn	Arg	Ile	Gly	Gln	Glu	Ser	Leu	Glu	Phe	Ile	Leu	Val	Gln	
				485												495
Ala	Asp	Thr	Pro	Ser	Ser	Pro	Ser	Ile	Asp	Gln	Val	Glu	Pro	Tyr	Ser	
				500												510
Ser	Thr	Ala	Gln	Val	Gln	Phe	Asp	Glu	Pro	Glu	Ala	Thr	Gly	Gly	Val	
				515												525
Pro	Ile	Leu	Lys	Tyr	Lys	Ala	Glu	Trp	Arg	Ala	Val	Gly	Glu	Glu	Val	
				530												540
Trp	His	Ser	Lys	Trp	Tyr	Asp	Ala	Lys	Glu	Ala	Ser	Met	Glu	Gly	Ile	
545					550											560
Val	Thr	Ile	Val	Gly	Leu	Lys	Pro	Glu	Thr	Thr	Tyr	Ala	Val	Arg	Leu	
				565												575
Ala	Ala	Leu	Asn	Gly	Lys	Gly	Leu	Gly	Glu	Ile	Ser	Ala	Ala	Ser	Glu	
				580												590
Phe	Lys	Thr	Gln	Pro	Val	Gln	Gly	Pro	Ser	Ala	Pro	Lys	Leu	Glu		
				595												605
Gly	Gln	Met	Gly	Glu	Asp	Gly	Asn	Ser	Ile	Lys	Val	Asn	Leu	Ile	Lys	
				610												620
Gln	Asp	Asp	Gly	Gly	Ser	Pro	Ile	Arg	His	Tyr	Leu	Val	Arg	Tyr	Arg	
625					630											640
Ala	Leu	Ser	Ser	Glu	Trp	Lys	Pro	Glu	Ile	Arg	Leu	Pro	Ser	Gly	Ser	
				645												655
Asp	His	Val	Met	Leu	Lys	Ser	Leu	Asp	Trp	Asn	Ala	Glu	Tyr	Glu	Val	
				660												670
Tyr	Val	Val	Ala	Glu	Asn	Gln	Gln	Gly	Lys	Ser	Lys	Ala	Ala	His	Phe	
				675												685
Val	Phe	Arg	Thr	Ser	Ala	Gln	Pro	Thr	Ala	Ile	Pro	Ala	Asn	Gly	Ser	
				690												700
Pro	Thr	Ser	Gly	Leu	Ser	Thr	Gly	Ala	Ile	Val	Gly	Ile	Leu	Ile	Val	
705					710											720
Ile	Phe	Val	Leu	Leu	Leu	Val	Val	Val	Asp	Ile	Thr	Cys	Tyr	Phe	Leu	
				725												735
Asn	Lys	Cys	Gly	Leu	Phe	Met	Cys	Ile	Ala	Val	Asn	Leu	Cys	Gly	Lys	
				740												750
Ala	Gly	Pro	Gly	Ala	Lys	Gly	Lys	Asp	Met	Glu	Glu	Gly	Lys	Ala	Ala	

		755					760					765				
Phe	Ser	Lys	Asp	Glu	Ser	Lys	Glu	Pro	Ile	Val	Glu	Val	Arg	Thr	Glu	
	770					775					780					
Glu	Glu	Arg	Thr	Pro	Asn	His	Asp	Gly	Gly	Lys	His	Thr	Glu	Pro	Asn	
785					790					795					800	
Glu	Thr	Thr	Pro	Leu	Thr	Glu	Pro	Glu	Lys	Gly	Pro	Val	Glu	Ala	Lys	
				805					810					815		
Pro	Glu	Cys	Gln	Glu	Thr	Glu	Thr	Lys	Pro	Ala	Pro	Ala	Glu	Val	Lys	
			820					825					830			
Thr	Val	Pro	Asn	Asp	Ala	Thr	Gln	Thr	Lys	Glu	Asn	Glu	Ser	Lys	Ala	
		835					840					845				

[illegible]

<400>	226															
Met	His	Arg	Arg	Arg	Ser	Arg	Ser	Cys	Arg	Glu	Asp	Gln	Lys	Pro	Val	
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Met	Asp	Asp	Gln	Arg	Asp	Leu	Ile	Ser	Asn	Asn	Glu	Gln	Leu	Pro	Met	
			20					25					30			
Leu	Gly	Arg	Arg	Pro	Gly	Ala	Pro	Glu	Ser	Lys	Cys	Ser	Arg	Gly	Ala	
		35					40					45				
Leu	Tyr	Thr	Gly	Phe	Ser	Ile	Leu	Val	Thr	Leu	Leu	Leu	Ala	Gly	Gln	
	50					55					60					
Ala	Thr	Thr	Ala	Tyr	Phe	Leu	Tyr	Gln	Gln	Gln	Gly	Arg	Leu	Asp	Lys	
65					70					75					80	
Leu	Thr	Val	Thr	Ser	Gln	Asn	Leu	Gln	Leu	Glu	Asn	Leu	Arg	Met	Lys	
				85					90					95		
Leu	Pro	Lys	Pro	Pro	Lys	Pro	Val	Ser	Lys	Met	Arg	Met	Ala	Thr	Pro	
			100					105					110			
Leu	Leu	Met	Gln	Ala	Leu	Pro	Met	Gly	Ala	Leu	Pro	Gln	Gly	Pro	Met	

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

<210> 227

<211> 557

<212> PRT

<213> Homo sapiens

<400> 227

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

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

<210> 228
 <211> 273
 <212> PRT
 <213> Homo sapiens

<400> 228

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

Leu

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<210> 229
 <211> 310
 <212> PRT
 <213> Homo sapiens

<400> 229
 Met Arg Arg Ala Ala Leu Trp Leu Trp Leu Cys Ala Leu Ala Leu Ser
 1 5 10 15
 Leu Gln Pro Ala Leu Pro Gln Ile Val Ala Thr Asn Leu Pro Pro Glu
 20 25 30
 Asp Gln Asp Gly Ser Gly Asp Asp Ser Asp Asn Phe Ser Gly Ser Gly
 35 40 45
 Ala Gly Ala Leu Gln Asp Ile Thr Leu Ser Gln Gln Thr Pro Ser Thr
 50 55 60
 Trp Lys Asp Thr Gln Leu Leu Thr Ala Ile Pro Thr Ser Pro Glu Pro
 65 70 75 80
 Thr Gly Leu Glu Ala Thr Ala Ala Ser Thr Ser Thr Leu Pro Ala Gly
 85 90 95
 Glu Gly Pro Lys Glu Gly Glu Ala Val Val Leu Pro Glu Val Glu Pro
 100 105 110
 Gly Leu Thr Ala Arg Glu Gln Glu Ala Thr Pro Arg Pro Arg Glu Thr
 115 120 125
 Thr Gln Leu Pro Thr Thr His Gln Ala Ser Thr Thr Thr Ala Thr Thr
 130 135 140
 Ala Gln Glu Pro Ala Thr Ser His Pro His Arg Asp Met Gln Pro Gly
 145 150 155 160
 His His Glu Thr Ser Thr Pro Ala Gly Pro Ser Gln Ala Asp Leu His
 165 170 175
 Thr Pro His Thr Glu Asp Gly Gly Pro Ser Ala Thr Glu Arg Ala Ala
 180 185 190
 Glu Asp Gly Ala Ser Ser Gln Leu Pro Ala Ala Glu Gly Ser Gly Glu
 195 200 205
 Gln Asp Phe Thr Phe Glu Thr Ser Gly Glu Asn Thr Ala Val Val Ala
 210 215 220
 Val Glu Pro Asp Arg Arg Asn Gln Ser Pro Val Asp Gln Gly Ala Thr
 225 230 235 240
 Gly Ala Ser Gln Gly Leu Leu Asp Arg Lys Glu Val Leu Gly Gly Val
 245 250 255
 Ile Ala Gly Gly Leu Val Gly Leu Ile Phe Ala Val Cys Leu Val Gly
 260 265 270
 Phe Met Leu Tyr Arg Met Lys Lys Lys Asp Glu Gly Ser Tyr Ser Leu
 275 280 285
 Glu Glu Pro Lys Gln Ala Asn Gly Gly Ala Tyr Gln Lys Pro Thr Lys
 290 295 300
 Gln Glu Glu Phe Tyr Ala
 305 310

<210> 230
 <211> 1048
 <212> PRT
 <213> Homo sapiens

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

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Arg	Ser	115	Gln	Asp	Lys	Ile	120	Ala	Cys	Ala	Pro	125	Leu	Tyr	His	Trp
130	Thr	Glu	Met	Lys	Gln	Glu	Arg	Glu	Pro	Val	Gly	Thr	Cys	Phe	Leu	
145	Asp	Gly	Thr	Lys	Thr	Val	Glu	Tyr	Ala	Pro	Cys	Arg	Ser	Gln	Asp	
	Asp	Ala	Asp	Gly	Gln	Gly	Phe	Cys	Gln	Gly	Gly	Phe	Ser	Ile	Asp	
	Thr	Lys	Ala	Asp	Arg	Val	Leu	Leu	Gly	Gly	Pro	Gly	Ser	Phe	Tyr	
Trp	Gln	Gly	Gln	Leu	Ile	Ser	Asp	Gln	Val	Ala	Glu	Ile	Val	Ser	Lys	
210	Asp	Pro	Asn	Val	Tyr	Ser	Ile	Lys	Tyr	Asn	Asn	Gln	Leu	Ala	Thr	
225	Thr	Ala	Gln	Ala	Ile	Phe	Asp	Asp	Ser	Tyr	Leu	Gly	Tyr	Ser	Val	
	Val	Gly	Asp	Phe	Asn	Gly	Asp	Gly	Ile	Asp	Asp	Phe	Val	Ser	Gly	
	Pro	Arg	Ala	Ala	Arg	Thr	Leu	Gly	Met	Val	Tyr	Ile	Tyr	Asp	Gly	
	Asn	Met	Ser	Ser	Leu	Tyr	Asn	Phe	Thr	Gly	Glu	Gln	Met	Ala	Ala	
	Phe	Gly	Phe	Ser	Val	Ala	Ala	Thr	Asp	Ile	Asn	Gly	Asp	Asp	Tyr	
305	Asp	Val	Phe	Ile	Gly	Ala	Pro	Leu	Phe	Met	Asp	Arg	Gly	Ser	Asp	
	Lys	Leu	Gln	Glu	Val	Gly	Gln	Val	Ser	Val	Ser	Leu	Gln	Arg	Ala	
	Gly	Asp	Phe	Gln	Thr	Thr	Lys	Leu	Asn	Gly	Phe	Glu	Val	Phe	Ala	
	Phe	Gly	Ser	Ala	Ile	Ala	Pro	Leu	Gly	Asp	Leu	Asp	Gln	Asp	Gly	
370	Asn	Asp	Ile	Ala	Ile	Ala	Ala	Pro	Tyr	Gly	Gly	Glu	Asp	Lys	Lys	
385	Ile	Val	Tyr	Ile	Phe	Asn	Gly	Arg	Ser	Thr	Gly	Leu	Asn	Ala	Val	
	Ser	Gln	Ile	Leu	Glu	Gly	Gln	Trp	Ala	Ala	Arg	Ser	Met	Pro	Pro	
	Phe	Gly	Tyr	Ser	Met	Lys	Gly	Ala	Thr	Asp	Ile	Asp	Lys	Asn	Gly	
	Pro	Asp	Leu	Ile	Val	Gly	Ala	Phe	Gly	Val	Asp	Arg	Ala	Ile	Leu	
465	Arg	Ala	Arg	Pro	Val	Ile	Thr	Val	Asn	Ala	Gly	Leu	Glu	Val	Tyr	
	Ser	Ile	Leu	Asn	Gln	Asp	Asn	Lys	Thr	Cys	Ser	Leu	Pro	Gly	Thr	
	Leu	Lys	Val	Ser	Cys	Phe	Asn	Val	Arg	Phe	Cys	Leu	Lys	Ala	Asp	
	Lys	Gly	Val	Leu	Pro	Arg	Lys	Leu	Asn	Phe	Gln	Val	Glu	Leu	Leu	
	Asp	Lys	Leu	Lys	Gln	Lys	Gly	Ala	Ile	Arg	Arg	Ala	Leu	Phe	Leu	
545	Ser	Arg	Ser	Pro	Ser	His	Ser	Lys	Asn	Met	Thr	Ile	Ser	Arg	Gly	
	Leu	Met	Gln	Cys	Glu	Glu	Leu	Ile	Ala	Tyr	Leu	Arg	Asp	Glu	Ser	
	Glu	Phe	Arg	Asp	Lys	Leu	Thr	Pro	Ile	Thr	Ile	Phe	Met	Glu	Tyr	
	Leu	Asp	Tyr	Arg	Thr	Ala	Ala	Asp	Thr	Thr	Gly	Leu	Gln	Pro	Ile	
	Asn	Gln	Phe	Thr	Pro	Ala	Asn	Ile	Ser	Arg	Gln	Ala	His	Ile	Leu	
625	Cys	Gly	Glu	Asp	Asn	Val	Cys	Lys	Pro	Lys	Leu	Glu	Val	Ser	Val	
	Ser	Asp	Gln	Lys	Lys	Ile	Tyr	Ile	Gly	Asp	Asp	Asn	Pro	Leu	Thr	
	Ile	Val	Lys	Ala	Gln	Asn	Gln	Gly	Glu	Gly	Ala	Tyr	Glu	Ala	Glu	

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Leu	Ile	Val	660	Ser	Ile	Pro	Leu	Gln	665	Ala	Asp	Phe	Ile	Gly	670	Val	Val	Arg
Asn	Asn	Glu	675	Ala	Leu	Ala	Arg	Leu	680	Ser	Cys	Ala	Phe	Lys	685	Thr	Glu	Asn
Gln	Thr	Arg	690	Gln	Val	Val	Cys	Asp	695	Leu	Gly	Asn	Pro	Met	700	Lys	Ala	Gly
705	Thr	Gln	Leu	Leu	Ala	Gly	Leu	Arg	710	Phe	Ser	Val	His	Gln	Gln	Ser	720	Glu
					725						730					735		
Met	Asp	Thr	740	Ser	Val	Lys	Phe	Asp	745	Leu	Gln	Ile	Gln	Ser	Ser	Asn	Leu	
Phe	Asp	Lys	755	Val	Ser	Pro	Val	Val	760	Ser	His	Lys	Val	Asp	765	Leu	Ala	Val
Leu	Ala	Ala	770	Val	Glu	Ile	Arg	Gly	775	Val	Ser	Ser	Pro	Asp	780	His	Ile	Phe
Leu	Pro	Ile	785	Pro	Asn	Trp	Glu	His	790	Lys	Glu	Asn	Pro	Glu	Thr	Glu	Glu	
Asp	Val	Gly	805	Pro	Val	Val	Gln	His	810	Ile	Tyr	Glu	Leu	Arg	Asn	Asn	Gly	
Pro	Ser	Ser	820	Phe	Ser	Lys	Ala	Met	825	Leu	His	Leu	Gln	Trp	Pro	Tyr	Lys	
Tyr	Asn	Asn	835	Asn	Thr	Leu	Leu	Tyr	840	Ile	Leu	His	Tyr	Asp	845	Ile	Asp	Gly
Pro	Met	Asn	850	Cys	Thr	Ser	Asp	Met	855	Glu	Ile	Asn	Pro	Leu	Arg	Ile	Lys	
Ile	Ser	Ser	865	Leu	Gln	Thr	870	Thr	Glu	Lys	Asn	Asp	875	Thr	Val	Ala	Gly	Gln
Gly	Glu	Arg	885	Asp	His	Leu	Ile	Thr	890	Lys	Arg	Asp	895	Leu	Ala	Leu	Ser	Glu
Gly	Asp	Ile	900	His	Thr	Leu	Gly	Cys	905	Gly	Val	Ala	Gln	Cys	910	Leu	Lys	Ile
Val	Cys	Gln	915	Val	Gly	Arg	Leu	Asp	920	Arg	Gly	Lys	Ser	Ala	925	Ile	Leu	Tyr
Val	Lys	Ser	930	Leu	Leu	Trp	Thr	Glu	935	Thr	Phe	Met	Asn	Lys	940	Glu	Asn	Gln
Asn	His	Ser	945	Tyr	Ser	Leu	Lys	Ser	950	Ser	Ala	Ser	955	Phe	Asn	Val	Ile	Glu
Phe	Pro	Tyr	965	Lys	Asn	Leu	Pro	Ile	970	Glu	Asp	Ile	975	Thr	Asn	Ser	Thr	Leu
Val	Thr	Thr	980	Asn	Val	Thr	Trp	Gly	985	Ile	Gln	Pro	Ala	Pro	Met	990	Pro	Val
Pro	Val	Trp	995	Val	Ile	Ile	Leu	Ala	1000	Val	Leu	Ala	Gly	1005	Leu	Leu	Leu	
Ala	Val	Leu	1010	Val	Phe	Val	Met	Tyr	1015	Arg	Met	Gly	Phe	1020	Phe	Lys	Arg	Val
Arg	Pro	Pro	1025	Gln	Glu	Glu	Gln	Glu	1030	Arg	Glu	Gln	Leu	1035	Gln	Pro	His	Glu
Asn	Gly	Glu	1045	Gly	Asn	Ser	Glu	Thr										1040

<210> 231

<211> 188

<212> PRT

<213> Homo sapiens

<400> 231

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

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

<210> 232
 <211> 750
 <212> PRT
 <213> Homo sapiens

<400> 232

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

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385	Ser	Phe	Gly	Thr	Leu	390	Lys	Lys	Glu	Gly	395	Trp	Arg	Pro	Arg	Arg	Thr	400	Ile
				405	Trp	Asp	Ala	Glu	Glu	410	Phe	Gly	Leu	Leu	Gly	Ser	Thr		
				420	Glu	Asn	Ser	Arg	Leu	425	Leu	Gln	Glu	Arg	Gly	Val	Ala		
				435	Ala	Asp	Ser	Ser	Ile	440	Glu	Gly	Asn	Tyr	Thr	Leu	Arg	Val	
				450	Asn	Ala	Asp	Ser	Ser	455	Ile	Glu	Gly	Asn	Tyr	Thr	Leu	Arg	Val
				465	Cys	Thr	Pro	Leu	Met	470	Tyr	Ser	Leu	Val	His	Asn	Leu	Thr	Lys
				485	Lys	Ser	Pro	Asp	Glu	490	Gly	Phe	Glu	Gly	Lys	Ser	Leu	Tyr	Glu
				500	Lys	Ser	Pro	Ser	Pro	505	Glu	Phe	Ser	Gly	Met	Pro	Arg	Ile	
				515	Leu	Gly	Ser	Gly	Asn	520	Asp	Phe	Glu	Val	Phe	Phe	Gln	Arg	Leu
				530	Ile	Ala	Ser	Gly	Arg	535	Ala	Arg	Tyr	Thr	Lys	Asn	Trp	Glu	Thr
				545	Phe	Ser	Gly	Tyr	Pro	550	Leu	Tyr	His	Ser	Val	Tyr	Glu	Thr	Tyr
				565	Val	Glu	Lys	Phe	Tyr	570	Asp	Pro	Met	Phe	Lys	Tyr	His	Leu	Thr
				580	Gln	Val	Arg	Gly	Gly	585	Met	Val	Phe	Glu	Leu	Ala	Asn	Ser	Ile
				595	Pro	Phe	Asp	Cys	Arg	600	Tyr	Ala	Val	Val	Leu	Arg	Lys	Tyr	Ala
				610	Lys	Ile	Tyr	Ser	Ile	615	Ser	Met	Lys	His	Pro	Gln	Glu	Met	Lys
				625	Ser	Val	Ser	Phe	Asp	630	Ser	Leu	Phe	Ser	Ala	Val	Lys	Asn	Phe
				645	Ile	Ala	Ser	Lys	Phe	650	Ser	Glu	Arg	Leu	Gln	Asp	Phe	Asp	Lys
				660	Pro	Ile	Val	Leu	Arg	665	Met	Met	Asn	Asp	Gln	Leu	Met	Phe	Leu
				675	Ala	Phe	Ile	Asp	Pro	680	Leu	Gly	Leu	Pro	Asp	Arg	Pro	Phe	Tyr
				690	Val	Ile	Tyr	Ala	Pro	695	Ser	His	Asn	Lys	Tyr	Ala	Gly	Glu	Ser
				705	Pro	Gly	Ile	Tyr	Asp	710	Ala	Leu	Phe	Asp	Ile	Glu	Ser	Lys	Val
				725	Ser	Lys	Ala	Trp	Gly	730	Glu	Val	Lys	Arg	Gln	Ile	Tyr	Val	Ala
				740	Thr	Val	Gln	Ala	Ala	745	Glu	Thr	Leu	Ser	Glu	Val	Ala		

<210> 233
 <211> 976
 <212> PRT
 <213> Homo sapiens

<400> 233
 Met Glu Leu Gln Ala Ala Arg Ala Cys Phe Ala Leu Leu Trp Gly Cys
 1 5 10 15
 Ala Leu Ala Ala Ala Ala Ala Gln Gly Lys Glu Val Val Leu Leu
 20 25 30
 Asp Phe Ala Ala Ala Gly Gly Glu Leu Gly Trp Leu Thr His Pro Tyr
 35 40 45
 Gly Lys Gly Trp Asp Leu Met Gln Asn Ile Met Asn Asp Met Pro Ile
 50 55 60
 Tyr Met Tyr Ser Val Cys Asn Val Met Ser Gly Asp Gln Asp Asn Trp
 65 70 75 80
 Leu Arg Thr Asn Trp Val Tyr Arg Gly Glu Ala Glu Arg Ile Phe Ile
 85 90 95
 Glu Leu Lys Phe Thr Val Arg Asp Cys Asn Ser Phe Pro Gly Gly Ala
 100 105 110
 Ser Ser Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Ala Glu Ser Asp Leu
 115 120 125

															eolf-seql		
Asp	Tyr	Gly	Thr	Asn	Phe	Gln	Lys	Arg	Leu	Phe	Thr	Lys	Ile	Asp	Thr		
130	130					135				140							
Ile	Ala	Pro	Asp	Glu	Ile	Thr	Val	Ser	Ser	Asp	Phe	Glu	Ala	Arg	His		
145					150					155					160		
Val	Lys	Leu	Asn	Val	Glu	Glu	Arg	Ser	Val	Gly	Pro	Leu	Thr	Arg	Lys		
			165						170					175			
Gly	Phe	Tyr	Leu	Ala	Phe	Gln	Asp	Ile	Gly	Ala	Cys	Val	Ala	Leu	Leu		
			180					185					190				
Ser	Val	Arg	Val	Tyr	Tyr	Lys	Lys	Cys	Pro	Glu	Leu	Leu	Gln	Gly	Leu		
		195					200					205					
Ala	His	Phe	Pro	Glu	Thr	Ile	Ala	Gly	Ser	Asp	Ala	Pro	Ser	Leu	Ala		
	210					215					220						
Thr	Val	Ala	Gly	Thr	Cys	Val	Asp	His	Ala	Val	Val	Pro	Pro	Gly	Gly		
225					230					235					240		
Glu	Glu	Pro	Arg	Met	His	Cys	Ala	Val	Asp	Gly	Glu	Trp	Leu	Val	Pro		
				245					250					255			
Ile	Gly	Gln	Cys	Leu	Cys	Gln	Ala	Gly	Tyr	Glu	Lys	Val	Glu	Asp	Ala		
			260					265					270				
Cys	Gln	Ala	Cys	Ser	Pro	Gly	Phe	Phe	Lys	Phe	Glu	Ala	Ser	Glu	Ser		
		275					280					285					
Pro	Cys	Leu	Glu	Cys	Pro	Glu	His	Thr	Leu	Pro	Ser	Pro	Glu	Gly	Ala		
	290					295					300						
Thr	Ser	Cys	Glu	Cys	Glu	Glu	Gly	Phe	Phe	Arg	Ala	Pro	Gln	Asp	Pro		
305					310					315					320		
Ala	Ser	Met	Pro	Cys	Thr	Arg	Pro	Pro	Ser	Ala	Pro	His	Tyr	Leu	Thr		
				325					330					335			
Ala	Val	Gly	Met	Gly	Ala	Lys	Val	Glu	Leu	Arg	Trp	Thr	Pro	Pro	Gln		
			340					345					350				
Asp	Ser	Gly	Gly	Arg	Glu	Asp	Ile	Val	Tyr	Ser	Val	Thr	Cys	Glu	Gln		
		355					360					365					
Cys	Trp	Pro	Glu	Ser	Gly	Glu	Cys	Gly	Pro	Cys	Glu	Ala	Ser	Val	Arg		
	370					375					380						
Tyr	Ser	Glu	Pro	Pro	His	Gly	Leu	Thr	Arg	Thr	Ser	Val	Thr	Val	Ser		
385					390					395					400		
Asp	Leu	Glu	Pro	His	Met	Asn	Tyr	Thr	Phe	Thr	Val	Glu	Ala	Arg	Asn		
				405					410					415			
Gly	Val	Ser	Gly	Leu	Val	Thr	Ser	Arg	Ser	Phe	Arg	Thr	Ala	Ser	Val		
			420					425					430				
Ser	Ile	Asn	Gln	Thr	Glu	Pro	Pro	Lys	Val	Arg	Leu	Glu	Gly	Arg	Ser		
		435					440					445					
Thr	Thr	Ser	Leu	Ser	Val	Ser	Trp	Ser	Ile	Pro	Pro	Pro	Gln	Gln	Ser		
	450					455					460						
Arg	Val	Trp	Lys	Tyr	Glu	Val	Thr	Tyr	Arg	Lys	Lys	Gly	Asp	Ser	Asn		
465					470					475					480		
Ser	Tyr	Asn	Val	Arg	Arg	Thr	Glu	Gly	Phe	Ser	Val	Thr	Leu	Asp	Asp		
				485					490					495			
Leu	Ala	Pro	Asp	Thr	Thr	Tyr	Leu	Val	Gln	Val	Gln	Ala	Leu	Thr	Gln		
			500					505					510				
Glu	Gly	Gln	Gly	Ala	Gly	Ser	Lys	Val	His	Glu	Phe	Gln	Thr	Leu	Ser		
		515					520					525					
Pro	Glu	Gly	Ser	Gly	Asn	Leu	Ala	Val	Ile	Gly	Gly	Val	Ala	Val	Gly		
	530					535					540						
Val	Val	Leu	Leu	Leu	Val	Leu	Ala	Gly	Val	Gly	Phe	Phe	Ile	His	Arg		
545					550					555					560		
Arg	Arg	Lys	Asn	Gln	Arg	Ala	Arg	Gln	Ser	Pro	Glu	Asp	Val	Tyr	Phe		
			565						570					575			
Ser	Lys	Ser	Glu	Gln	Leu	Lys	Pro	Leu	Lys	Thr	Tyr	Val	Asp	Pro	His		
			580					585					590				
Thr	Tyr	Glu	Asp	Pro	Asn	Gln	Ala	Val	Leu	Lys	Phe	Thr	Thr	Glu	Ile		
		595					600					605					
His	Pro	Ser	Cys	Val	Thr	Arg	Gln	Lys	Val	Ile	Gly	Ala	Gly	Glu	Phe		
	610					615					620						
Gly	Glu	Val	Tyr	Lys	Gly	Met	Leu	Lys	Thr	Ser	Ser	Gly	Lys	Lys	Glu		
625					630					635					640		
Val	Pro	Val	Ala	Ile	Lys	Thr	Leu	Lys	Ala	Gly	Tyr	Thr	Glu	Lys	Gln		
				645					650					655			
Arg	Val	Asp	Phe	Leu	Gly	Glu	Ala	Gly	Ile	Met	Gly	Gln	Phe	Ser	His		
			660					665					670				

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His	Asn	Ile	Ile	Arg	Leu	Glu	Gly	Val	Ile	Ser	Lys	Tyr	Lys	Pro	Met
		675					680					685			
Met	Ile	Ile	Thr	Glu	Tyr	Met	Glu	Asn	Gly	Ala	Leu	Asp	Lys	Phe	Leu
	690					695					700				
Arg	Glu	Lys	Asp	Gly	Glu	Phe	Ser	Val	Leu	Gln	Leu	Val	Gly	Met	Leu
705					710					715					720
Arg	Gly	Ile	Ala	Ala	Gly	Met	Lys	Tyr	Leu	Ala	Asn	Met	Asn	Tyr	Val
				725					730					735	
His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Ile	Leu	Val	Asn	Ser	Asn	Leu	Val
			740					745					750		
Cys	Lys	Val	Ser	Asp	Phe	Gly	Leu	Ser	Arg	Val	Leu	Glu	Asp	Asp	Pro
		755					760					765			
Glu	Ala	Thr	Tyr	Thr	Thr	Ser	Gly	Gly	Lys	Ile	Pro	Ile	Arg	Trp	Thr
	770					775					780				
Ala	Pro	Glu	Ala	Ile	Ser	Tyr	Arg	Lys	Phe	Thr	Ser	Ala	Ser	Asp	Val
785					790					795					800
Trp	Ser	Phe	Gly	Ile	Val	Met	Trp	Glu	Val	Met	Thr	Tyr	Gly	Glu	Arg
			805					810						815	
Pro	Tyr	Trp	Glu	Leu	Ser	Asn	His	Glu	Val	Met	Lys	Ala	Ile	Asn	Asp
			820					825					830		
Gly	Phe	Arg	Leu	Pro	Thr	Pro	Met	Asp	Cys	Pro	Ser	Ala	Ile	Tyr	Gln
		835					840					845			
Leu	Met	Met	Gln	Cys	Trp	Gln	Gln	Glu	Arg	Ala	Arg	Arg	Pro	Lys	Phe
	850					855					860				
Ala	Asp	Ile	Val	Ser	Ile	Leu	Asp	Lys	Leu	Ile	Arg	Ala	Pro	Asp	Ser
865					870					875					880
Leu	Lys	Thr	Leu	Ala	Asp	Phe	Asp	Pro	Arg	Val	Ser	Ile	Arg	Leu	Pro
			885						890					895	
Ser	Thr	Ser	Gly	Ser	Glu	Gly	Val	Pro	Phe	Arg	Thr	Val	Ser	Glu	Trp
			900					905					910		
Leu	Glu	Ser	Ile	Lys	Met	Gln	Gln	Tyr	Thr	Glu	His	Phe	Met	Ala	Ala
		915				920						925			
Gly	Tyr	Thr	Ala	Ile	Glu	Lys	Val	Val	Gln	Met	Thr	Asn	Asp	Asp	Ile
	930				935						940				
Lys	Arg	Ile	Gly	Val	Arg	Leu	Pro	Gly	His	Gln	Lys	Arg	Ile	Ala	Tyr
945					950					955					960
Ser	Leu	Leu	Gly	Leu	Lys	Asp	Gln	Val	Asn	Thr	Val	Gly	Ile	Pro	Ile
				965					970					975	

<210> 234
 <211> 668
 <212> PRT
 <213> Homo sapiens

<400> 234

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

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Val	Lys	Ile	Phe	165	Glu	Asp	Phe	Ala	Gln	170	Ser	Trp	Tyr	Trp	Ile	175	Val				
Ala	Leu	Gly	Val	180	Ala	Leu	Val	Leu	Ser	185	Leu	Leu	Phe	Ile	190	Leu	Leu				
Arg	Leu	Val	Ala	195	Gly	Pro	Leu	Val	Leu	200	Val	Leu	Ile	205	Gly	Val	Leu				
Gly	Val	Leu	Ala	210	Tyr	Gly	Ile	Tyr	Tyr	215	Cys	Trp	Glu	Glu	Tyr	Arg	Val				
Leu	Arg	Asp	Lys	225	Gly	Ala	Ser	Ile	Ser	230	Gln	Leu	Gly	Phe	Thr	Thr	Asn				
Leu	Ser	Ala	Tyr	245	Gln	Ser	Val	Gln	Glu	250	Thr	Trp	Leu	Ala	Ala	Leu	Ile				
Val	Leu	Ala	Val	260	Leu	Glu	Ala	Ile	Leu	265	Leu	Leu	Met	Leu	Ile	Phe	Leu				
Arg	Gln	Arg	Ile	275	Arg	Ile	Ala	Ile	Ala	280	Leu	Leu	Lys	Glu	Ala	Ser	Lys				
Ala	Val	Gly	Gln	290	Met	Met	Ser	Thr	Met	295	Phe	Tyr	Pro	Leu	Val	Thr	Phe				
Val	Leu	Leu	Leu	305	Ile	Cys	Ile	Ala	Tyr	310	Trp	Ala	Met	Thr	Ala	Leu	Tyr				
Leu	Ala	Thr	Ser	325	Gly	Gln	Pro	Gln	Tyr	330	Val	Leu	Trp	Ala	Ser	Asn	Ile				
Ser	Ser	Pro	Gly	340	Cys	Glu	Lys	Val	Pro	345	Ile	Asn	Thr	Ser	Cys	Asn	Pro				
Thr	Ala	His	Leu	355	Val	Asn	Ser	Ser	Cys	360	Pro	Gly	Leu	Met	Cys	Val	Phe				
Gln	Gly	Tyr	Ser	370	Ser	Lys	Gly	Leu	Ile	375	Gln	Arg	Ser	Val	Phe	Asn	Leu				
Gln	Ile	Tyr	Gly	385	Val	Leu	Gly	Leu	Phe	390	Trp	Thr	Leu	Asn	Trp	Val	Leu				
Ala	Leu	Gly	Gln	405	Cys	Val	Leu	Ala	Gly	410	Ala	Phe	Ala	Ser	Phe	Tyr	Trp				
Ala	Phe	His	Lys	420	Pro	Gln	Asp	Ile	Pro	425	Thr	Phe	Pro	Leu	Ile	Ser	Ala				
Phe	Ile	Arg	Thr	435	Leu	Arg	Tyr	His	Thr	440	Gly	Ser	Leu	Ala	Phe	Gly	Ala				
Leu	Ile	Leu	Thr	450	Leu	Val	Gln	Ile	Ala	455	Arg	Val	Ile	Leu	Glu	Tyr	Ile				
Asp	His	Lys	Leu	465	Arg	Gly	Val	Gln	Asn	470	Pro	Val	Ala	Arg	Cys	Ile	Met				
Cys	Cys	Phe	Lys	485	Cys	Cys	Leu	Trp	Cys	490	Leu	Glu	Lys	Phe	Ile	Lys	Phe				
Leu	Asn	Arg	Asn	500	Ala	Tyr	Ile	Met	Ile	505	Ala	Ile	Tyr	Gly	Lys	Asn	Phe				
Cys	Val	Ser	Ala	515	Lys	Asn	Ala	Phe	Met	520	Leu	Leu	Met	Arg	Asn	Ile	Val				
Arg	Val	Val	Val	530	Leu	Asp	Lys	Val	Thr	535	Asp	Leu	Leu	Phe	Phe	Gly					
Lys	Leu	Leu	Val	545	Val	Gly	Gly	Val	Gly	550	Val	Leu	Ser	Phe	Phe	Phe					
Ser	Gly	Arg	Ile	565	Pro	Gly	Leu	Gly	Lys	570	Asp	Phe	Lys	Ser	Pro	His	Leu				
Asn	Tyr	Tyr	Trp	580	Leu	Pro	Ile	Met	Thr	585	Ser	Ile	Leu	Gly	Ala	Tyr	Val				
Ile	Ala	Ser	Gly	595	Phe	Phe	Ser	Val	Phe	600	Gly	Met	Cys	Val	Asp	Thr	Leu				
Phe	Leu	Cys	Phe	610	Leu	Glu	Asp	Leu	Glu	615	Arg	Asn	Asn	Gly	Ser	Leu	Asp				
Arg	Pro	Tyr	Tyr	625	Met	Ser	Lys	Ser	Leu	630	Leu	Lys	Ile	Leu	Gly	Lys	Lys				
Asn	Glu	Ala	Pro	645	Pro	Asp	Asn	Lys	Lys	650	Arg	Lys	Lys								
				660						665											

<210> 235

<211> 214

<212> PRT

<213> Artificial Sequence

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<220>

<223> antibody constituent

<400> 235

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

<210> 236

<211> 449

<212> PRT

<213> Artificial Sequence

<220>

<223> antibody constituent

<400> 236

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

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195 200 205
 Phe Asn Arg Gly Glu Cys
 210
 <210> 238
 <211> 444
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> antibody constituent
 <400> 238
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Gly
 20 25 30
 Asp Tyr Tyr Trp Thr Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Ile Gly His Ile Tyr Tyr Ser Gly Asn Thr Asn Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Leu Thr Ile Ser Ile Asp Thr Ser Lys Thr Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Ile Tyr Tyr
 85 90 95
 Cys Val Arg Asp Arg Val Thr Gly Ala Phe Asp Ile Trp Gly Gln Gly
 100 105 110
 Thr Met 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 Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp His Lys Pro
 195 200 205
 Ser Asn Thr Lys Val Asp Lys Thr Val Glu Arg Lys Cys Cys Val Glu
 210 215 220
 Cys Pro Pro Cys Pro Ala Pro Pro Val Ala 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 His 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 Phe Arg Val Val Ser Val Leu
 290 295 300
 Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
 305 310 315 320
 Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
 325 330 335
 Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 340 345 350
 Arg 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 Met Leu Asp Ser Asp Gly
 385 390 395 400
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 405 410 415
 Gln 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 Pro Gly

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435

440

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 <211> 219
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 <213> Artificial Sequence

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<400> 239
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 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Asn Ile Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Asp Trp Tyr Gln Gln Thr Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Phe Gln Tyr
 85 90 95
 Ser His Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Leu Gln Ile Thr
 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
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 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
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<400> 240
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 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30
 Tyr Ile Tyr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Thr Ser Gly Gly Ser Asn Phe Asn Glu Lys Phe
 50 55 60
 Lys Thr Arg Val Thr Ile Thr Ala Asp Glu Ser Ser Thr Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
 85 90 95
 Thr Arg Gln Gly Leu Trp Phe Asp Ser Asp Gly Arg Gly Phe Asp Phe
 100 105 110
 Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly
 115 120 125
 Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
 130 135 140
 Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
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145	Thr	Val	Ser	Trp	Asn	150	Ser	Gly	Ala	Leu	Thr	155	Ser	Gly	Val	His	Thr	160	Phe			
					165	Gln	Ser	Ser	Gly	Leu	170	Tyr	Ser	Leu	Ser	Ser	Val	175	Val			
					180	Ser	Ser	Ser	Leu	Gly	185	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	190	Val		
					195	Pro	Ser	Asn	Thr	Lys	200	Val	Asp	Lys	Lys	205	Val	Glu	Pro	Lys		
					210	Lys	Pro	Ser	His	Thr	215	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	
					225	Cys	Asp	Lys	Thr	His	230	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	
					245	Gly	Gly	Pro	Ser	Val	250	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	
					260	Met	Ile	Ser	Arg	Thr	265	Glu	Val	Thr	Cys	Val	Val	Val	Val	Asp	Val	
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					325	Asn	Gly	Lys	Glu	Tyr	330	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala			
					340	Pro	Ile	Glu	Lys	Thr	345	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro
					355	Gln	Val	Tyr	Thr	Leu	360	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln
					370	Val	Ser	Leu	Thr	Cys	375	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala
					385	Val	Glu	Trp	Glu	Ser	390	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr
					405	Pro	Pro	Val	Leu	Asp	410	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu
					420	Thr	Val	Asp	Lys	Ser	425	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser
					435	Val	Met	His	Glu	Ala	440	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser
					450	Leu	Ser	Pro	Gly	Lys												