

SEQUENCE LISTING

<110> ALECTOR INC.

<120> ANTI-CD33 ANTIBODIES AND METHODS OF USE
THEREOF

<130> 735022000740

<150> PCT/US2016/037108

<151> 2016-06-11

<150> US 62/241,701

<151> 2015-10-14

<150> US 62/175,152

<151> 2015-06-12

<160> 251

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 364

<212> PRT

<213> Homo sapiens

<400> 1

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

```

Tyr Lys Ser Pro Gln Leu Ser Val His Val Thr Asp Leu Thr His Arg
130 135 140
Pro Lys Ile Leu Ile Pro Gly Thr Leu Glu Pro Gly His Ser Lys Asn
145 150 155 160
Leu Thr Cys Ser Val Ser Trp Ala Cys Glu Gln Gly Thr Pro Pro Ile
165 170 175
Phe Ser Trp Leu Ser Ala Ala Pro Thr Ser Leu Gly Pro Arg Thr Thr
180 185 190
His Ser Ser Val Leu Ile Ile Thr Pro Arg Pro Gln Asp His Gly Thr
195 200 205
Asn Leu Thr Cys Gln Val Lys Phe Ala Gly Ala Gly Val Thr Thr Glu
210 215 220
Arg Thr Ile Gln Leu Asn Val Thr Tyr Val Pro Gln Asn Pro Thr Thr
225 230 235 240
Gly Ile Phe Pro Gly Asp Gly Ser Gly Lys Gln Glu Thr Arg Ala Gly
245 250 255
Val Val His Gly Ala Ile Gly Gly Ala Gly Val Thr Ala Leu Leu Ala
260 265 270
Leu Cys Leu Cys Leu Ile Phe Phe Ile Val Lys Thr His Arg Arg Lys
275 280 285
Ala Ala Arg Thr Ala Val Gly Arg Asn Asp Thr His Pro Thr Thr Gly
290 295 300
Ser Ala Ser Pro Lys His Gln Lys Lys Ser Lys Leu His Gly Pro Thr
305 310 315 320
Glu Thr Ser Ser Cys Ser Gly Ala Ala Pro Thr Val Glu Met Asp Glu
325 330 335
Glu Leu His Tyr Ala Ser Leu Asn Phe His Gly Met Asn Pro Ser Lys
340 345 350
Asp Thr Ser Thr Glu Tyr Ser Glu Val Arg Thr Gln
355 360

```

<210> 2

<211> 403

<212> PRT

<213> Mus musculus

<400> 2

```

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

```

```

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

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

```

<210> 3

<211> 334

<212> PRT

<213> Rattus norvegicus

<220>

<221> VARIANT

<222> 310, 316, 318

<223> Xaa = Any Amino Acid

<400> 3

```

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

```

325

330

<210> 4
 <211> 356
 <212> PRT
 <213> Pan troglodytes

<400> 4

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

```

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

```

<210> 5

<211> 228

<212> PRT

<213> Macaca mulatta

<400> 5

```

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

```

<210> 6

<211> 378

<212> PRT

<213> Canis familiaris

<400> 6

```

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

```

735022000740SEQLIST

```

          340          345          350
Glu Leu Tyr Tyr Ala Ser Ile Ser Phe His Arg Arg Thr Glu Ser Thr
          355          360          365
Cys Ala Glu Tyr Ser Glu Ile Arg Thr Gln
          370          375

```

<210> 7
 <211> 366
 <212> PRT
 <213> Bos taurus

```

<400> 7
Met Leu Pro Leu Leu Leu Pro Leu Leu Leu Pro Leu Leu Trp Ala Ala
 1          5          10          15
Thr Leu Ala Gln Asp Pro Asn Tyr Trp Leu Lys Ala Pro Trp Ser Val
          20          25          30
Ser Val Gln Glu Gly Leu Cys Val Arg Val Pro Cys Ser Val Tyr Tyr
          35          40          45
Pro Ser Asp Phe Arg Ser Gly Ser Thr Pro Val His Gly Phe Trp Phe
          50          55          60
Arg Glu Gly Ala Glu Val Leu Lys Asp Ala Pro Val Ala Thr Asn Lys
65          70          75          80
Leu Asp Arg Glu Ala Gln Lys Glu Thr Gln Gly Arg Phe His Leu Leu
          85          90          95
Gly Asp Pro Arg Asp Asn Asn Cys Ser Leu Glu Ile Arg Asp Ala Arg
          100          105          110
Lys Ser Asp Arg Gly Ser Tyr Phe Phe Arg Met Glu Lys Gly Ser Met
          115          120          125
Lys Trp Ser Tyr Leu Ser Glu Leu Phe Phe Leu Asn Val Thr Ala Phe
          130          135          140
Thr His Gln Pro His Leu Leu Ser Pro Gly Asp Leu Glu Pro Gly His
145          150          155          160
Pro Gly Asn Met Thr Cys Ser Val Pro Trp Ala Cys Glu Arg Ala Met
          165          170          175
Pro Pro Ile Phe Ser Trp Thr Ser Ala Ala Pro Ser Ser Leu Gly Pro
          180          185          190
Arg Thr Pro Phe Ser Ser Val Leu Thr Leu Thr Pro Arg Pro Gln Asp
          195          200          205
His Gly Thr Arg Leu Thr Cys Gln Val Lys Phe Pro Arg Ser Gly Val
          210          215          220
Met Val Glu Arg Thr Ile Leu Leu Asn Val Thr Tyr Ala Ser Arg Asn
225          230          235          240
Pro Gly Asn Ile Cys Thr Gly Asp Gly Thr Gly Glu Ser Gly Thr Gly
          245          250          255
Ala Gly Val Thr Glu Gly Ala Ile Ala Gly Ala Gly Val Thr Met Leu
          260          265          270
Leu Val Leu Cys Phe Gly Leu Ile Phe Phe Val Val Lys Ile Tyr Arg

```

735022000740SEQLIST

```

      275              280              285
Lys Lys Val Ala Lys Thr Ala Val Asp Met Glu Asp Ile Tyr Ser Ala
      290              295              300
Ala Glu Pro Ala Ser Leu Asp His Gln Gln Glu Ser Lys Ser Glu Glu
305              310              315              320
Ser Ser Asp Pro Thr Asn Tyr Ala Gly Thr Thr Pro Ser Leu Glu Leu
      325              330              335
Glu Gln Glu Leu His Tyr Ser Ser Ile Ile Phe Arg Gly Glu Lys Pro
      340              345              350
Gln Glu Ser Pro His Ser Glu Tyr Ala Glu Ile Arg Ile Lys
      355              360              365

```

<210> 8

<211> 380

<212> PRT

<213> Danio rerio

<400> 8

```

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

```

735022000740SEQLIST

```

225          230          235          240
Asp Glu Leu Ser Cys Met Cys Ile Ser Ser Gly Val Pro Leu Pro Leu
          245          250          255
Ile Gln Trp Pro Thr Leu Asp Asp Pro Thr Asn Tyr Cys Ser Tyr Lys
          260          265          270
Asn Thr Ile Ile Ile Cys Asn Ile Ser Ile Ser Gly Ile Arg Asn Val
          275          280          285
Lys Asp Thr Ile Glu Cys Ile Ala Glu Asn Val Ile Ala Thr Thr Ser
          290          295          300
Met Gln Ile Gln Val His Asn Gln Thr Glu Thr Pro Lys Ala Asn Leu
305          310          315          320
Gly Leu Ser Met Ser Trp Ile Phe Cys Thr Leu Ser Val Val Leu Asn
          325          330          335
Ile Ile Phe Gly Ser Cys Thr Val Val Leu Cys Phe Asn Arg Arg Lys
          340          345          350
Asn Arg Glu Lys Pro Lys Asp Val Asp His Val Tyr Met Thr Ser Leu
          355          360          365
Lys Arg Glu Glu Ser Val Tyr Glu Thr Ile Lys Val
          370          375          380

```

<210> 9
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 9
 Lys Ala Ser Gln Asp Ile Asn Lys Tyr Leu Ser
 1 5 10

<210> 10
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 10
 Arg Ala Ser Gln Ser Val Ser Thr Ser Thr Tyr Ser Tyr Met His
 1 5 10 15

<210> 11

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

<220>
 <223> Synthetic construct

<400> 11
 Arg Ala Ser Lys Ser Val Ser Thr Ser Gly His Ser Tyr Met His
 1 5 10 15

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

<220>
 <223> Synthetic construct

<400> 12
 Arg Ala Asn Arg Leu Val Asp
 1 5

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

<220>
 <223> Synthetic construct

<400> 13
 Tyr **Ala Ser** Asn Leu Glu Ser
 1 5

<210> 14
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 14
 Leu Ala Ser Ser Leu Glu Ser

1 5

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

<220>
<223> Synthetic construct

<400> 15
Leu Gln Tyr Asp Glu Phe Pro Leu Thr
1 5

<210> 16
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 16
Gln Arg Ser Trp Glu Ile Pro Leu Thr
1 5

<210> 17
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 17
Gln His Ser Arg Glu Leu Pro Leu Thr
1 5

<210> 18
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 18

Tyr Thr Phe Thr Ser Tyr Asp Ile Asn
1 5

<210> 19

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 19

Tyr Thr Phe Thr Asp Tyr Asn Leu His
1 5

<210> 20

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 20

Tyr Ser Phe Thr Gly Tyr Tyr Met His
1 5

<210> 21

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 21

Phe Thr Phe Ser Asn Tyr Cys Met Asn
1 5

<210> 22

<211> 14

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 22
 Ile Gly Trp Ile Phe Pro Gly Asp Gly Ser Thr Lys Tyr Asn
 1 5 10

<210> 23
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 23
 Ile Gly Phe Ile Tyr Pro Ser Asn Gly Ile Thr Gly Tyr Asn
 1 5 10

<210> 24
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 24
 Ile Gly Glu Ile Asn Pro Ser Thr Gly Gly Thr Ser Tyr Asn
 1 5 10

<210> 25
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 25
 Val Ala Glu Ile Arg Leu Lys Ser Asn Asn Tyr Val Thr
 1 5 10

<210> 26
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 26
Arg Tyr His Tyr Ala Met Asp Ser
1 5

<210> 27
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 27
Ala Arg Ser Thr Val Asp Tyr Phe Asp Tyr
1 5 10

<210> 28
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 28
Thr Arg Gly His Tyr Gly Ser Tyr Leu Thr Phe Asp Tyr
1 5 10

<210> 29
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 29

Thr Arg Asp Gly Tyr Tyr Val Pro Phe Ala Tyr
 1 5 10

<210> 30

<211> 108

<212> PRT

<213> Mus musculus

<400> 30

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

<210> 31

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 31

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

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

<210> 32
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

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

<210> 33
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 33
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Ile Asn Lys Tyr
 20 25 30
 Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

735022000740SEQLIST

```

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

```

<210> 34
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

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

```

<210> 35
 <211> 112
 <212> PRT
 <213> Mus musculus

```

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

```

```

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

```

<210> 36
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

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

```

<210> 37
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 37
Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1          5          10          15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
      20          25          30
Thr Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
      35          40          45
Lys Leu Leu Ile Tyr Tyr Asn Leu Glu Ser Gly Val Pro Ser Arg Phe
      50          55          60

```

735022000740SEQLIST

```

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

```

<210> 38
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 38
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 Val Ser Thr Ser
      20          25          30
Thr Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
      35          40          45
Lys Leu Leu Ile Tyr Tyr Asn Leu Glu Ser Gly Val Pro Ser Arg Phe
      50          55          60
Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu
65          70          75          80
Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Arg Ser Trp Glu Ile
      85          90          95
Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
      100          105

```

<210> 39
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 39
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 Val Ser Thr Ser
      20          25          30
Thr Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
      35          40          45

```

```

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

```

<210> 40
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

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

```

<210> 41
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 41
Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1                      5                      10                      15
Gln Pro Ala Ser Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
      20                      25                      30

```

735022000740SEQLIST

```

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

```

<210> 42
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 42
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1          5          10          15
Glu Arg Ala Thr Ile Asn Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
 20          25          30
Thr Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35          40          45
Lys Leu Leu Ile Tyr Tyr Asn Leu Glu Ser Gly Val Pro Asp 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 Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Arg Ser Trp Glu Ile
    85          90          95
Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
    100        105

```

<210> 43
 <211> 114
 <212> PRT
 <213> Mus musculus

```

<400> 43
Ser Thr Gly Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val
 1          5          10          15
Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys Ser Val
 20          25          30
Ser Thr Ser Gly His Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly

```

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

<210> 44
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 44																	
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Val	Gly		
1				5					10					15			
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Lys	Ser	Val	Ser	Thr	Ser		
			20					25					30				
Gly	His	Ser	Tyr	Met	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro		
			35				40					45					
Lys	Leu	Leu	Ile	Tyr	Leu	Ala	Ser	Ser	Leu	Glu	Ser	Gly	Val	Pro	Ser		
			50			55					60						
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser		
65					70					75					80		
Ser	Leu	Gln	Pro	Asp	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	His	Ser	Arg		
				85					90					95			
Glu	Leu	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys			
			100					105					110				

<210> 45
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 45																	
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly		

735022000740SEQLIST

```

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

```

<210> 46

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 46

```

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

```

<210> 47

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 47

```

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

```

<210> 48

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 48

```

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

```

<210> 49

<211> 115

<212> PRT

<213> Mus musculus

<400> 49

```

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

```

<210> 50

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 50

```

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

```

<210> 51

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 51

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

<210> 52

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

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

115

<210> 53
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 53
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Asp Ile Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Trp Ile Phe Pro Gly Asp Gly Ser Thr Lys Tyr Asn Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Arg Tyr His Tyr Ala Met Asp Ser Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser
 115

<210> 54
 <211> 109
 <212> PRT
 <213> Mus musculus

<400> 54
 Pro Glu Leu Val Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala
 1 5 10 15
 Ser Gly Tyr Thr Phe Thr Asp Tyr Asn Leu His Trp Val Lys Leu Ser
 20 25 30
 His Gly Lys Ser Leu Glu Trp Ile Gly Phe Ile Tyr Pro Ser Asn Gly
 35 40 45
 Ile Thr Gly Tyr Asn Gln Lys Phe Lys Asn Lys Ala Thr Leu Thr Val
 50 55 60
 Asp Asn Ser Ser Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser
 65 70 75 80
 Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Ser Thr Val Asp Tyr Phe
 85 90 95

Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
 100 105

<210> 55
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

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

<210> 56
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 56
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Asn Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Phe Ile Tyr Pro Ser Asn Gly Ile Thr Gly Tyr Asn Gln Lys Phe
 50 55 60

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

<210> 57

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 57

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

<210> 58

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 58

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

```

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

```

<210> 59
 <211> 120
 <212> PRT
 <213> Mus musculus

```

<400> 59
Glu Val Lys Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
  1          5          10          15
Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
    20          25          30
Tyr Met His Trp Val Lys Gln Ser Glu Lys Ser Leu Glu Trp Ile
    35          40          45
Gly Glu Ile Asn Pro Ser Thr Gly Gly Thr Ser Tyr Asn Gln Lys Phe
    50          55          60
Lys Gly Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr
    65          70          75          80
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
    85          90          95
Thr Arg Gly His Tyr Gly Ser Tyr Leu Thr Phe Asp Tyr Trp Gly His
    100         105         110
Gly Thr Thr Leu Thr Val Ser Ser
    115         120

```

<210> 60
 <211> 56
 <212> PRT
 <213> Mus musculus

```

<400> 60
Ser Gly Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr
  1          5          10          15

```

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
 20 25 30
 Thr Arg Gly His Tyr Gly Ser Tyr Leu Thr Phe Asp Tyr Trp Gly His
 35 40 45
 Gly Thr Thr Leu Thr Val Ser Ser
 50 55

<210> 61

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 61

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

<210> 62

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 62

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

```

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

```

<210> 63
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 63
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1              5              10              15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
    20              25              30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
    35              40              45
Gly Glu Ile Asn Pro Ser Thr Gly Gly Thr Ser Tyr Asn Asp Ser Val
    50              55              60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65              70              75              80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
    85              90              95
Thr Arg Gly His Tyr Gly Ser Tyr Leu Thr Phe Asp Tyr Trp Gly Gln
    100              105              110
Gly Thr Leu Val Thr Val Ser Ser
    115              120

```

<210> 64
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 64

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

<210> 65

<211> 120

<212> PRT

<213> Mus musculus

<400> 65

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

<210> 66

<211> 120

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic construct

<400> 66

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

<210> 67

<211> 15

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic construct

<400> 67

Arg Ala Ser Lys Ser Val Ser Thr Ser Gly Tyr Ser Tyr Met His
1 5 10 15

<210> 68

<211> 15

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic construct

<400> 68

Arg Ala Ser Lys Arg Val Ser Thr Ser Val His Ser Tyr Met His
1 5 10 15

<210> 69
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 69
Tyr **Ala Ser** Asn Leu Glu Cys
1 5

<210> 70
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 70
Leu Val Ser Asn Leu Glu Ser
1 5

<210> 71
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 71
Leu Ala Ser Ser Leu Glu Ser
1 5

<210> 72
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 72

Gln His Ser Trp Glu Ile Pro Leu Thr
1 5

<210> 73

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<220>

<221> VARIANT

<222> 8

<223> Xaa = Any Amino Acid

<400> 73

Asn Leu Leu Leu Ser Ala His Xaa Gly Ala Tyr Thr
1 5 10

<210> 74

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 74

Gln His Ser Arg Glu Val Pro Leu Thr
1 5

<210> 75

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 75

Tyr Thr Phe Thr Ser Tyr Trp Met His
1 5

<210> 76
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 76
 Val Ala Glu Ile Arg Leu Lys Ser Asn Asn Tyr Val Thr Asn Tyr Val
 1 5 10 15

<210> 77
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 77
 Ile Gly Asn Ile Tyr Pro Gly Ser Ile Ser Ser Asn Tyr Asp
 1 5 10

<210> 78
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 78
 Glx Thr Gln Ser Leu Ala Ser Leu Ala Val Ser Leu Gly Gln Arg Ala
 1 5 10 15
 Thr Met Ser Cys
 20

<210> 79
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 79

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	Tyr									
			20												

<210> 80

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 80

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

<210> 81

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 81

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

<210> 82

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 82

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

<210> 83
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 83
 Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Lys
 1 5 10 15

<210> 84
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 84
 Trp Asn Gln Gln Lys Pro Gly Gln Pro Pro Arg Leu Leu Ile Tyr
 1 5 10 15

<210> 85
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 85
 Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Ile Ile Tyr
 1 5 10 15

<210> 86
 <211> 15
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 86

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

<210> 87

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 87

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

<210> 88

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 88

Gly	Val	Pro	Ala	Arg	Phe	Ser	Gly	Ser	Gly	Glx	Trp	Asp	Arg	Leu	His
1				5					10					15	
Pro	Gln	His	Pro	Ser	Cys	Gly	Gly	Gly	Gly	Cys	Cys				
			20					25							

<210> 89

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 89

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

<210> 90

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 90

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

<210> 91

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 91

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

<210> 92

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 92

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

<210> 93
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 93
 Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 94
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 94
 Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 1 5 10

<210> 95
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 95
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly
 20 25

<210> 96
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 96

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	Gly	Ser	Gly						
			20					25							

<210> 97

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 97

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

<210> 98

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 98

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

<210> 99

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 99

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

<210> 100

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 100

Trp Val Lys Leu Ser His Gly Lys Ser Leu Glu Trp
 1 5 10

<210> 101

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 101

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

<210> 102

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 102

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

<210> 103

<211> 12

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 103
 Trp Val Arg Gln Arg Pro Glu Gln Gly Leu Glu Trp
 1 5 10

<210> 104
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 104
 Gln Lys Phe Lys Asn Lys Ala Thr Leu Thr Val Asp Asn Ser Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
 20 25 30
 Tyr Tyr Cys
 35

<210> 105
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 105
 Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser
 1 5 10 15
 Arg Val Tyr Leu Gln Met Asn Asn Leu Arg Gly Glu Asp Thr Gly Phe
 20 25 30
 Tyr Tyr Cys
 35

<210> 106
 <211> 35
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 106

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

<210> 107

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 107

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

<210> 108

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 108

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

<210> 109

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 109

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

<210> 110

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 110

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

<210> 111

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 111

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

<210> 112

<211> 106

<212> PRT

<213> Mus musculus

<400> 112

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

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

<210> 113

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 113

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

<210> 114

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 114

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

```

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

```

<210> 115
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

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

```

<210> 116
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 116
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 Val Ser Thr Ser

```

735022000740SEQLIST

```

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

```

<210> 117
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 117
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1      5      10      15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
      20      25      30
Thr Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
      35      40      45
Lys Leu Leu Ile Tyr Tyr Asn Leu Glu Cys Gly Val Pro Ser Arg Phe
      50      55      60
Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu
65      70      75      80
Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln His Ser Trp Glu Ile
      85      90      95
Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
      100      105

```

<210> 118
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 118
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly

```

```

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

```

<210> 119
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 119
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 Val Ser Thr Ser
                20           25           30
Thr Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
                35           40           45
Lys Leu Leu Ile Tyr Tyr Asn Leu Glu Cys 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 His Ser Trp Glu Ile
                85           90           95
Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
                100           105

```

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

<220>
 <223> Synthetic construct

<400> 120

```

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

```

<210> 121

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 121

```

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

```

<210> 122

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 122

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

<210> 123

<211> 110

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> 96

<223> Xaa = Any Amino Acid

<400> 123

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

<210> 124

<211> 114

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

<400> 124
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
 20 25 30
 Gly Tyr Ser Tyr Met His Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro
 35 40 45
 Gln Leu Leu Ile Tyr Leu Val Ser Asn Leu Glu Ser Gly Val Pro Asp
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser
 65 70 75 80
 Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Asn Leu Leu Leu
 85 90 95
 Ser Ala His Xaa Gly Ala Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu
 100 105 110
 Ile Lys

<210> 125
 <211> 114
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

<400> 125
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
 20 25 30

```

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

```

<210> 126
 <211> 114
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

```

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

```

<210> 127
 <211> 114

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

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

<210> 128
 <211> 114
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

<400> 128
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
 20 25 30

735022000740SEQLIST

```

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

```

<210> 129
 <211> 114
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

```

<400> 129
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 Lys Ser Val Ser Thr Ser
           20                               25                   30
Gly Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
   35                               40                   45
Lys Leu Leu Ile Tyr Leu Val 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 Asn Leu Leu Leu
           85                               90                   95
Ser Ala His Xaa Gly Ala Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu
          100                               105                   110
Ile Lys

```

<210> 130
 <211> 114

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

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

<210> 131
 <211> 114
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

<400> 131
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
 20 25 30

```

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

```

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

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

```

<400> 132
Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
  1                               5                   10                   15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
                               20                   25                   30
Gly Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
   35                               40                   45
Arg Leu Leu Ile Tyr Leu Val Ser Asn Leu Glu Ser Gly Ile Pro Ala
   50                               55                   60
Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser
  65                               70                   75                   80
Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys Asn Leu Leu Leu
                               85                   90                   95
Ser Ala His Xaa Gly Ala Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu
   100                               105                   110
Ile Lys

```

<210> 133
 <211> 114

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 100
 <223> Xaa = Any Amino Acid

<400> 133
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
 20 25 30
 Gly Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
 35 40 45
 Arg Leu Leu Ile Tyr Leu Val Ser Asn Leu Glu Ser Gly Ile Pro Asp
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
 65 70 75 80
 Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Asn Leu Leu Leu
 85 90 95
 Ser Ala His Xaa Gly Ala Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu
 100 105 110
 Ile Lys

<210> 134
 <211> 111
 <212> PRT
 <213> Mus musculus

<400> 134
 Asp Phe Gln Ile Gln Gln Ser Leu Ala Ser Leu Val Val Ser Met Gly
 1 5 10 15
 Gln Arg Ala Ala Ile Ser Phe Arg Ala Ser Lys Arg Val Ser Thr Ser
 20 25 30
 Val His Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45
 Lys Leu Ile Ile Tyr Leu Ala Ser Ser Leu Glu Ser Gly Val Arg Ala
 50 55 60
 Arg Phe Ser Gly Glx Gly Trp Gly Thr Asp Phe Thr Leu Asn Ile His
 65 70 75 80
 Pro Val Glu Glu Glu Asp Gly Ala Thr Tyr Tyr Cys Gln His Ser Arg
 85 90 95

Glu Val Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Met Lys
 100 105 110

<210> 135
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

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

<210> 136
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

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

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

<210> 137
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 137
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Glu Arg Ala Thr Ile Asn Cys Arg Ala Ser Lys Arg Val Ser Thr Ser
 20 25 30
 Val His Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45
 Lys Leu Leu Ile Tyr Leu Ala Ser Ser Leu Glu Ser Gly Val Pro Asp
 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 Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln His Ser Arg
 85 90 95
 Glu Val Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 138
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 138
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Lys Arg Val Ser Thr Ser
 20 25 30
 Val His Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
 35 40 45
 Lys Leu Leu Ile Tyr Leu Ala Ser Ser Leu Glu Ser Gly Val Pro Ser
 50 55 60

```

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

```

<210> 139

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 139

```

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

```

<210> 140

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 140

```

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

```

```

Lys Leu Leu Ile Tyr Leu Ala Ser Ser Leu Glu Ser Gly Val Pro Ser
 50          55          60
Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu 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 Arg
          85          90          95
Glu Val Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
          100          105          110

```

<210> 141

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 141

```

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

```

<210> 142

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 142

```

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

```

735022000740SEQLIST

```

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

```

<210> 143

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 143

```

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

```

<210> 144

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 144

```

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

```

```

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

```

```

<210> 145
<211> 107
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Synthetic construct

```

```

<400> 145
Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1      5      10      15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Ile Asn Lys Tyr
      20      25      30
Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
      35      40      45
Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
      50      55      60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
      65      70      75      80
Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Glu Phe Pro Leu
      85      90      95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
      100      105

```

```

<210> 146
<211> 107
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Synthetic construct

```

```

<400> 146

```

```

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

```

<210> 147

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 147

```

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

```

<210> 148

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 148

```

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

```

<210> 149

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 149

```

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

```

<210> 150

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 150

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

<210> 151

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 151

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

<210> 152

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 152

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

<210> 153

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 153

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

<210> 154

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

<400> 154
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Asn Leu His Trp Val Lys Leu Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45
 Gly Phe Ile Tyr Pro Ser Asn Gly Ile Thr Gly Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asn Lys Ala Thr Leu Thr Val Asp Asn Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Thr Val Asp Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr
 100 105 110
 Leu Thr Val Ser Ser
 115

<210> 155
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

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

<210> 156
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 156
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Asn Leu His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Phe Ile Tyr Pro Ser Asn Gly Ile Thr Gly Tyr Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Thr Val Asp Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 157
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 157
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Asn Leu His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Phe Ile Tyr Pro Ser Asn Gly Ile Thr Gly Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80

```

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

```

<210> 158
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

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

```

<210> 159
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 159
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1          5          10          15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Asp Tyr
      20          25          30

```

```

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

```

<210> 160
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 160
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
  1                               5                               10                               15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
                               20                               25                               30
Cys Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
                               35                               40                               45
Ala Glu Ile Arg Leu Lys Ser Asn Asn Tyr Val Thr Asn Tyr Val Asp
   50                               55                               60
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala 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 Arg Asp Gly Tyr Tyr Val Pro Phe Ala Tyr Trp Gly Gln
                               100                               105                               110
Gly Thr Leu Val Thr Val Ser Ser
                               115                               120

```

<210> 161
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 161

```

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

```

<210> 162

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 162

```

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

```

<210> 163

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

<220>
 <223> Synthetic construct

<400> 163
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Cys Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Leu Lys Ser Asn Asn Tyr Val Thr Asn Tyr Val Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr
 65 70 75 80
 Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Thr Arg Asp Gly Tyr Tyr Val Pro Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 164
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 164
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Cys Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Leu Lys Ser Asn Asn Tyr Val Thr Asn Tyr Val Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr
 65 70 75 80
 Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Thr Arg Asp Gly Tyr Tyr Val Pro Phe Ala Tyr Trp Gly Gln

	100		105		110
Gly	Thr	Leu	Val	Thr	Val
	115		120		

<210> 165
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 165
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Cys Met Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Leu Lys Ser Asn Asn Tyr Val Thr Asn Tyr Val Pro
 50 55 60
 Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr
 65 70 75 80
 Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr
 85 90 95
 Tyr Cys Thr Arg Asp Gly Tyr Tyr Val Pro Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 166
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 166
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Cys Met Asn Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Leu Lys Ser Asn Asn Tyr Val Thr Asn Tyr Val Pro

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

<210> 167
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 167															
Gln	Leu	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr
			20					25					30		
Cys	Met	Asn	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ala	Glu	Ile	Arg	Leu	Lys	Ser	Asn	Asn	Tyr	Val	Thr	Asn	Tyr	Val	Pro
	50					55					60				
Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln
65					70					75					80
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr
				85					90					95	
Tyr	Cys	Thr	Arg	Asp	Gly	Tyr	Tyr	Val	Pro	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 168
 <211> 120
 <212> PRT
 <213> Mus musculus

<400> 168															
Gln	Val	Gln	Leu	Gln	Gln	Ser	Gly	Ser	Glu	Leu	Val	Arg	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Leu	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr
			20					25					30		

```

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

```

<210> 169
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

```

<400> 169
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1                                5                                10                                15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
    20                                25                                30
Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
    35                                40                                45
Gly Asn Ile Tyr Pro Gly Ser Ile Ser Ser Asn Tyr Asp Gln Lys Phe
    50                                55                                60
Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65                                70                                75                                80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
    85                                90                                95
Thr Arg Gly His Tyr Gly Ser Tyr Leu Thr Phe Asp Tyr Trp Gly Gln
    100                                105                                110
Gly Thr Leu Val Thr Val Ser Ser
    115                                120

```

<210> 170
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 170

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

<210> 171

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 171

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

<210> 172

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

<220>
 <223> Synthetic construct

<400> 172
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Asn Ile Tyr Pro Gly Ser Ile Ser Ser Asn Tyr Asp Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Arg Gly His Tyr Gly Ser Tyr Leu Thr Phe Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 173
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 173
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Asn Ile Tyr Pro Gly Ser Ile Ser Ser Asn Tyr Asp Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Arg Gly His Tyr Gly Ser Tyr Leu Thr Phe Asp Tyr Trp Gly Gln

```

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

```

```

<210> 174
<211> 120
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Synthetic construct

```

```

<400> 174
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1          5          10          15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
      20          25          30
Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
      35          40          45
Gly Asn Ile Tyr Pro Gly Ser Ile Ser Ser Asn Tyr Asp Asp Ser Val
 50          55          60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65          70          75          80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
      85          90          95
Thr Arg Gly His Tyr Gly Ser Tyr Leu Thr Phe Asp Tyr Trp Gly Gln
      100          105          110
Gly Thr Leu Val Thr Val Ser Ser
      115          120

```

```

<210> 175
<211> 120
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Synthetic construct

```

```

<400> 175
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1          5          10          15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Ser Tyr
      20          25          30
Trp Met His Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Ile
      35          40          45
Gly Asn Ile Tyr Pro Gly Ser Ile Ser Ser Asn Tyr Asp Pro Ser Leu

```

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

<210> 176
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 176
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30
Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Asn Ile Tyr Pro Gly Ser Ile Ser Ser Asn Tyr Asp Ala Pro Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Thr Arg Gly His Tyr Gly Ser Tyr Leu Thr Phe Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 177
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 177
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln

735022000740SEQLIST

```

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

```

<210> 178

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 178

```

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

```

<210> 179

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 179

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

<210> 180

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 180

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

<210> 181
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 181
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Trp Ile Phe Pro Gly Asp Gly Ser Thr Lys Tyr Asn Ala Pro Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Arg Tyr His Tyr Ala Met Asp Ser Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser
 115

<210> 182
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 182
 Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Asp Ile Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Trp Ile Phe Pro Gly Asp Gly Ser Thr Lys Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80

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

<210> 183

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 183

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

<210> 184

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 184

Arg Pro Ser Lys Arg Ile Ser Ala Tyr Val Phe Ser Tyr Met His
 1 5 10 15

<210> 185
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 7
 <223> Xaa = Any Amino Acid

<400> 185
 Leu Ser Cys Asn Leu Glu Xaa
 1 5

<210> 186
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 186
 Ile Gly Asn Ile Tyr Pro Gly Ser Gly Ser Thr Tyr Tyr Asp
 1 5 10

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

<220>
 <223> Synthetic construct

<400> 187
 Thr Arg Gly His Tyr Gly Asn Tyr Leu Thr Phe Asp Tyr
 1 5 10

<210> 188
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 188

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

<210> 189

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 189

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

<210> 190

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 190

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

<210> 191

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 191

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

<210> 192

<211> 111

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> 60

<223> Xaa = Any Amino Acid

<400> 192

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

<210> 193

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<220>

<221> VARIANT

<222> 60

<223> Xaa = Any Amino Acid

<400> 193

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

<210> 194

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<220>

<221> VARIANT

<222> 60

<223> Xaa = Any Amino Acid

<400> 194

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

<210> 195
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 60
 <223> Xaa = Any Amino Acid

<400> 195
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Glu Arg Ala Thr Ile Asn Cys Arg Pro Ser Lys Arg Ile Ser Ala Tyr
 20 25 30
 Val Phe Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45
 Lys Leu Leu Ile Tyr Leu Ser Cys Asn Leu Glu Xaa Gly Val Pro Asp
 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 Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln His Ser Arg
 85 90 95
 Glu Leu Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 196
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<220>
 <221> VARIANT
 <222> 60
 <223> Xaa = Any Amino Acid

<400> 196
 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 Pro Ser Lys Arg Ile Ser Ala Tyr

735022000740SEQLIST

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

<210> 197

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<220>

<221> VARIANT

<222> 60

<223> Xaa = Any Amino Acid

<400> 197

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

<210> 198

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<220>

<221> VARIANT

<222> 60

<223> Xaa = Any Amino Acid

<400> 198

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

<210> 199

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<220>

<221> VARIANT

<222> 60

<223> Xaa = Any Amino Acid

<400> 199

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

735022000740SEQLIST

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

<210> 200

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<220>

<221> VARIANT

<222> 60

<223> Xaa = Any Amino Acid

<400> 200

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

<210> 201

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<220>

<221> VARIANT

<222> 60

<223> Xaa = Any Amino Acid

<400> 201

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

<210> 202

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<220>

<221> VARIANT

<222> 60

<223> Xaa = Any Amino Acid

<400> 202

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

<210> 203
 <211> 120
 <212> PRT
 <213> Mus musculus

<400> 203
 Gln Val Gln Leu Gln Gln Pro Gly Ser Glu Leu Val Arg Pro Gly Ala
 1 5 10 15
 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Asn Ile Tyr Pro Gly Ser Gly Ser Thr Tyr Tyr Asp Glu Lys Phe
 50 55 60
 Lys Ser Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Gly Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Thr Arg Gly His Tyr Gly Asn Tyr Leu Thr Phe Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Thr Leu Thr Val Ser Ser
 115 120

<210> 204
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 204
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Asn Ile Tyr Pro Gly Ser Gly Ser Thr Tyr Tyr Asp Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Arg Gly His Tyr Gly Asn Tyr Leu Thr Phe Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 205
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 205
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Asn Ile Tyr Pro Gly Ser Gly Ser Thr Tyr Tyr Asp Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Thr Arg Gly His Tyr Gly Asn Tyr Leu Thr Phe Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

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

<220>
 <223> Synthetic construct

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

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

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

<220>
 <223> Synthetic construct

<400> 207
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Asn Ile Tyr Pro Gly Ser Gly Ser Thr Tyr Tyr Asp Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Arg Gly His Tyr Gly Asn Tyr Leu Thr Phe Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 208
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 208
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

```

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

```

<210> 209

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 209

```

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

```

<210> 210

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 210

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

<210> 211

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 211

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

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

<220>
 <223> Synthetic construct

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

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

<220>
 <223> Synthetic construct

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

				85					90					95			
Thr	Arg	Gly	His	Tyr	Gly	Asn	Tyr	Leu	Thr	Phe	Asp	Tyr	Trp	Gly	Gln		
			100					105					110				
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser										
		115					120										

<210> 214

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 214

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

<210> 215

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 215

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

<210> 216

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

<220>
 <223> Synthetic construct

<400> 216
 Gly Cys Ala Cys Thr Cys Ala Cys Ala Thr Cys Gly Cys Thr Ala Cys
 1 5 10 15
 Ala Thr Cys Ala
 20

<210> 217
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 217
 ctagagtgcc agggatg 17

<210> 218
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 218
 ctccactcac ggcaaattca a 21

<210> 219
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 219
 gatgacaagc ttcccattct cg 22

<210> 220

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

<220>
 <223> Synthetic construct

<400> 220
 ccgtcagccg atttgctatc t 21

<210> 221
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 221
 acggcagaga ggaggttgac tt 22

<210> 222
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 222
 acaacaaaaa agcctcgtgc tg 22

<210> 223
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 223
 ccattgaggt ggagagcttt ca 22

<210> 224
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

 <400> 224
 ggcaaaccga aggtctacgt tc 22

 <210> 225
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic construct

 <400> 225
 tacctcattg gccagctgct t 21

 <210> 226
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic construct

 <400> 226
 aggacctggg ttggaagtgg 20

 <210> 227
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic construct

 <400> 227
 agttggcatg gtagcccttg 20

 <210> 228
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic construct

 <400> 228

Thr Leu Ser Ser Gln His Ser Thr Tyr Thr Ile Glu
 1 5 10

<210> 229
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 229
 Met Glu Leu Lys Lys Asp Gly Ser His Ser Thr Gly Asp
 1 5 10

<210> 230
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 230
 Gly Val Gly Asp Thr Ile Lys Glu Gln Phe Val Tyr Val
 1 5 10

<210> 231
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 231
 Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr Asn Leu His
 1 5 10

<210> 232
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 232

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

<210> 233

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 233

Val	Ala	Glu	Ile	Arg	Leu	Lys	Ser	Asn	Asn	Tyr	Val	Thr	Asn	Tyr	Val
1				5				10					15		

Tyr Cys

<210> 234

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 234

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

Gln Arg Ala Thr Met Ser Cys

20

<210> 235

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 235

Gln	Leu	Val	Leu	Thr	Gln	Ser	Ser	Ser	Ala	Ser	Phe	Ser	Leu	Gly	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
Ser	Ala	Lys	Leu
	Thr	Cys	
	20		

<210> 236
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 236												
Trp	Tyr	Gln	Gln	Gln	Pro	Leu	Lys	Pro	Pro	Lys	Tyr	Val
1				5					10			

<210> 237
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 237															
Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Ser	Ser	Gly	Ala	Asp	Arg	Tyr
1				5				10					15		
Leu	Ser	Ile	Ser	Asn	Ile	Gln	Pro	Glu	Asp	Glu	Ala	Ile	Tyr	Ile	Cys
			20					25					30		

<210> 238
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 238									
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu
1				5				10	

<210> 239
 <211> 22

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 239
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys
 20

<210> 240
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 240
 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
 20

<210> 241
 <211> 109
 <212> PRT
 <213> Mus musculus

<400> 241
 Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Gln Arg Ala Thr Met Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
 20 25 30
 Thr Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45
 Lys Leu Leu Ile Lys Tyr Asn Leu Glu Ser Gly Val Pro Ala Arg Phe
 50 55 60
 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His Pro Val
 65 70 75 80
 Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp Glu Ile
 85 90 95
 Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 100 105

<210> 242
 <211> 115
 <212> PRT
 <213> Mus musculus

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

<210> 243
 <211> 109
 <212> PRT
 <213> Mus musculus

<400> 243
 Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Gln Arg Ala Thr Met Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
 20 25 30
 Thr Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45
 Lys Leu Leu Ile Lys Tyr Asn Leu Glu Ser Gly Val Pro Ala Arg Phe
 50 55 60
 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His Pro Val
 65 70 75 80
 Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp Glu Ile
 85 90 95
 Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 100 105

<210> 244
 <211> 117
 <212> PRT
 <213> Mus musculus

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

<210> 245
 <211> 120
 <212> PRT
 <213> Mus musculus

<400> 245
 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 Gly Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Cys Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Leu Lys Ser Asn Asn Tyr Val Thr Asn Tyr Val Tyr
 50 55 60
 Cys Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
 65 70 75 80
 Ser Arg Val Tyr Leu Gln Met Asn Asn Leu Arg Gly Glu Asp Thr Gly
 85 90 95
 Phe Tyr Thr Arg Asp Gly Tyr Tyr Val Pro Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ala
 115 120

<210> 246
 <211> 117
 <212> PRT
 <213> Mus musculus

<400> 246
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Asn Leu His Trp Val Lys Leu Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45
 Gly Phe Ile Tyr Pro Ser Asn Gly Ile Thr Gly Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asn Lys Ala Thr Leu Thr Val Asp Asn Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Thr Val Asp Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr
 100 105 110
 Leu Thr Val Ser Ser
 115

<210> 247
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

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

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

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

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

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

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

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

<400> 247
 Xaa Xaa Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
 1 5 10 15
 Xaa Xaa Xaa

<210> 248
 <211> 446
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 248
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Ile Thr Asp Ser
 20 25 30
 Asn Ile His Trp Val Arg Gln Ala Pro Gly Gln Ser Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Pro Tyr Asn Gly Gly Thr Asp Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asn Arg Ala Thr Leu Thr Val Asp Asn Pro Thr Asn Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Tyr Cys

735022000740SEQLIST

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

<210> 249

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

<220>
 <223> Synthetic construct

<400> 249
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Leu Asp Asn Tyr
 20 25 30
 Gly Ile Arg Phe Leu Thr Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro
 35 40 45
 Lys Leu Leu Met Tyr Ala Ala Ser Asn Gln Gly Ser Gly Val Pro Ser
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser
 65 70 75 80
 Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Lys
 85 90 95
 Glu Val Pro Trp Ser Phe Gly Gln Gly Thr Lys Val Glu Val 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

<210> 250
 <211> 446
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 250
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Asn Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Pro Tyr Asn Gly Gly Thr Gly Tyr Asn Gln Lys Phe
 50 55 60

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

<210> 251
 <211> 163
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 251
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Val Asp Asn Tyr
 20 25 30
 Gly Ile Ser Phe Met Asn Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro
 35 40 45
 Lys Leu Leu Ile Tyr Ala Ala Ser Asn Gln Gly 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 Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Lys
 85 90 95
 Glu Val Pro Trp Thr Phe Gly Gln 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