SEQUENCE LISTING

<110> ~~MONROE, Kate~~ALECTOR INC.
~~LAM, Helen~~
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~~LEE, Seung-Joo~~
~~MONTEITH, William~~
~~RHINN, Herve~~
~~ROSENTHAL, Arnon~~

<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

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<160> 251

<170> FastSEQ for Windows Version 4.0

<210> 1
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<213> Homo sapiens

<400> 1

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

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

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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

```
            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
```

```
        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
```

```
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

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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

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

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
```

```
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
```

```
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
```

```
 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 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

<220>
<223> Synthetic construct

<400> 66
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
            20   25   30
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 Ala
    50   55   60
Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
65   70   75   80
Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr 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> 67
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<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

<220>
<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> 57
<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
```

```
            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 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

```
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
```

```
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 Ser Ser
        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 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 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
```

```
 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

```
            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
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<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

```
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
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<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

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1               5                  10                  15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly 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
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<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
ggcaaaccca 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

```
                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