

735022000940_SEQLIST

SEQUENCE LISTING

<110> Alector LLC
 SCHWABE, Tina
 AVOGADRI-CONNORS, Francesca
 LAM, Helen
 TASSI, Ilaria
 LEE, Seung-Joo
 ROSENTHAL, Arnon

<120> ANTI-TREM2 ANTIBODIES AND METHODS OF USE
 THEREOF

<130> 735022000940

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> US 62/238,044

<151> 2015-10-06

<150> US 62/369,666

<151> 2016-08-01

<160> 888

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1

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

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

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<210> 2

<211> 227

<212> PRT

<213> Mus musculus

<400> 2

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

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180 185 190
 Val Ala Arg Gly Arg Gln Lys Pro Gly Thr Pro Val Val Arg Gly Leu
 195 200 205
 Asp Cys Gly Gln Asp Ala Gly His Gln Leu Gln Ile Leu Thr Gly Pro
 210 215 220
 Gly Gly Thr
 225

<210> 3

<211> 228

<212> PRT

<213> Rattus norvegicus

<400> 3

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

<210> 4

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<211> 260

<212> PRT

<213> Macaca mulatta

<400> 4

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

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<210> 5

<211> 230

<212> PRT

<213> Bos taurus

<400> 5

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Met Glu Pro Val Val Leu Leu Ile Leu Leu Ala Val Thr Glu Leu Ser

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

```

<210> 6

<211> 230

<212> PRT

<213> Equus caballus

<400> 6

```

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

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

<210> 7

<211> 233

<212> PRT

<213> Sus domesticus

<400> 7

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

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                165                170                175
Leu Val Ala Ser Ala Leu Trp Ala Ala Ala Trp His Gly His Lys Gln
                180                185                190
Arg Thr Ser Pro Ala Gly Gly Leu Asp Cys Gly Arg Asp Pro Gly Asp
                195                200                205
Gln Asp Gln Thr Leu Thr Asp Glu Leu Gly Glu Ser Ser Asp Gln Asp
                210                215                220
Gln Thr Leu Thr Glu Leu Arg Asp Thr
225                230

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<210> 8

<211> 230

<212> PRT

<213> Canis familiaris

<400> 8

```

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

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

<220>
 <223> Synthetic Construct

<400> 9
 Arg Ala Ser Glu Asn Ile Tyr Ser Phe Leu Ala
 1 5 10

<210> 10
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 10
 Lys Ser Ser Gln Ser Leu Leu Tyr Ser Ser Asn Gln Lys Asn Cys Leu
 1 5 10 15
 Ala

<210> 11
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 11
 Lys Ser Ser Gln Ser Leu Leu Tyr Ser Asn Gly Lys Thr Phe Leu Ser
 1 5 10 15

<210> 12
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 12

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

<210> 13

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 13

Ser	Ala	Ser	Ser	Ser	Val	Ser	Tyr	Met	Tyr
1				5				10	

<210> 14

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 14

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

<210> 15

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 15

Arg	Ser	Ser	Gln	Thr	Ile	Ile	His	Ser	Asn	Gly	Asn	Thr	Tyr	Leu	Glu
1				5					10					15	

<210> 16

<211> 17

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<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 16

Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser	Ser	Asp	Gln	Lys	Asn	Tyr	Leu
1				5				10					15		
Ala															

<210> 17

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 17

Arg	Ala	Ser	Glu	Asn	Ile	Tyr	Ser	Tyr	Leu	Ala
1				5				10		

<210> 18

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 18

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

<210> 19

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 19

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

<210> 20

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 20

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

<210> 21

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 21

Lys	Ala	Ser	Ser	Asn	Val	Asn	Tyr	Met	Ser
1				5				10	

<210> 22

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 22

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

<210> 23

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 23

Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser	Gly	Asn	Gln	Lys	Asn	Phe	Leu
1				5					10					15	
Ala															

<210> 24

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 24

Asn	Ser	Lys	Thr	Phe	Ala	Glu
1				5		

<210> 25

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 25

Trp	Ala	Phe	Thr	Arg	Glu	Ser
1				5		

<210> 26

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 26

Leu	Val	Ser	Lys	Leu	Asp	Ser
-----	-----	-----	-----	-----	-----	-----

1

5

<210> 27

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 27

Leu Thr Ser Ile Leu Ala Ser

1

5

<210> 28

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 28

Lys Val Ser Asn Arg Phe Ser

1

5

<210> 29

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 29

Trp Ala Ser Thr Arg Glu Ser

1

5

<210> 30

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 30

Lys Ala Lys Thr Leu Ala Glu
1 5

<210> 31

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 31

Ala Ala Thr Asn Leu Ala Asp
1 5

<210> 32

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 32

Phe Thr Ser Asn Leu Pro Ser
1 5

<210> 33

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 33

Lys Val Ser Asn Arg Phe Cys
1 5

<210> 34

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 34

Gln	His	His	Tyr	Gly	Thr	Pro	Pro	Trp	Thr
1				5					10

<210> 35

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 35

Gln	Gln	Tyr	Tyr	Ser	Tyr	Pro	Leu	Thr
1				5				

<210> 36

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 36

Met	Gln	Gly	Thr	His	Phe	Pro	Leu	Thr
1				5				

<210> 37

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 37

Trp	Gln	Gly	Thr	His	Phe	Pro	Tyr	Thr
1				5				

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<210> 38
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 38
 Gln Gln Trp Ser Phe Asn Pro Tyr Thr
 1 5

<210> 39
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 39
 Ser Gln Ser Thr His Val Pro Leu Thr
 1 5

<210> 40
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 40
 Phe Gln Gly Ser His Val Pro Tyr Thr
 1 5

<210> 41
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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<400> 41

Gln His His Tyr Gly Thr Pro Phe Thr
1 5

<210> 42

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 42

His His Phe Trp Gly Thr Pro Tyr Thr
1 5

<210> 43

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 43

Ser Gln Ser Thr Arg Val Pro Tyr Thr
1 5

<210> 44

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 44

Ser Gln Ser Thr Arg Val Pro Pro Thr
1 5

<210> 45

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 45

Ser Gly Glu Val Thr Gln Phe Thr
1 5

<210> 46

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 46

Gln Asn Asp Tyr Gly Phe Pro Leu Thr
1 5

<210> 47

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 47

Gln Gln Tyr Tyr Ser Tyr Pro Phe Thr
1 5

<210> 48

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 48

Phe Thr Leu Ser Ser Tyr Ala Met Ser
1 5

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<210> 49
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 49
 Tyr Thr Phe Thr Glu Tyr Thr Met His
 1 5

<210> 50
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 50
 Tyr Thr Phe Thr Asp Tyr Glu Met His
 1 5

<210> 51
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 51
 Phe Thr Phe Ser Asp Ala Trp Met Gly
 1 5

<210> 52
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000940_SEQLIST

<400> 52

Phe Ser Phe Asn Thr Tyr Ala Met Asn
1 5

<210> 53

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 53

Tyr Thr Val Ser Arg Tyr Trp Met His
1 5

<210> 54

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 54

Tyr Pro Phe Ser Asn Phe Trp Ile Thr
1 5

<210> 55

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 55

Leu Thr Ser Asn Thr Tyr Thr Gln Thr
1 5

<210> 56

<211> 9

<212> PRT

<213> Artificial Sequence

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<220>

<223> Synthetic Construct

<400> 56

Phe Thr Phe Ser Asp Ala Trp Met Asp
1 5

<210> 57

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 57

Phe Thr Phe Asn Thr Tyr Ser Met Asn
1 5

<210> 58

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 58

Tyr Thr Phe Thr Thr Tyr Trp Ile His
1 5

<210> 59

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 59

Tyr Ala Phe Ser Asn Tyr Trp Met Ser
1 5

735022000940_SEQLIST

<210> 60

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 60

Tyr Ala Phe Ser Ser Ser Trp Met Asn

1

5

<210> 61

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 61

Tyr Ile Phe Thr Thr Tyr Trp Ile His

1

5

<210> 62

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 62

Phe Asn Phe Asn Thr Tyr Ala Met Lys

1

5

<210> 63

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 63

735022000940_SEQLIST

Phe Asn Phe Asn Thr Tyr Ala Met Asn
1 5

<210> 64
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 64
Tyr Thr Phe Ser Asp Tyr Tyr Ile His
1 5

<210> 65
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 65
Phe Arg Phe Asn Thr Tyr Ala Met Thr
1 5

<210> 66
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 66
Val Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro
1 5 10

<210> 67
<211> 14
<212> PRT
<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 67

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

<210> 68

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 68

Ile	Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	Tyr	Asn
1				5					10				

<210> 69

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 69

Val	Ala	Glu	Ile	Arg	Asp	Lys	Val	Lys	Asn	His	Ala	Thr	Tyr	Tyr	Ala
1				5					10					15	

<210> 70

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 70

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

<210> 71

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 71
 Ile Gly Arg Ile Asp Pro Asn Ser Gly Gly Thr Lys Tyr Asn
 1 5 10

<210> 72
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 72
 Ile Gly Asp Ile Tyr Pro Gly Ser Asp Asn Ser Asn Tyr Asn
 1 5 10

<210> 73
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 73
 Glu Ser Val Ile Arg Ser Lys Ser Asn Asn Phe Ser Thr Leu Tyr Ala
 1 5 10 15

<210> 74
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 74
 Val Ala Glu Ile Arg Asn Lys Val Asn Asn His Ala Thr Tyr Tyr Ala

735022000940_SEQLIST

1 5 10 15

<210> 75

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 8

<223> Xaa = Glutamic acid or Glutamine

<400> 75

Val Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala
1 5 10 15

<210> 76

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 76

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

<210> 77

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 77

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

<210> 78

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 78
 Ile Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn
 1 5 10

<210> 79
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 79
 Ile Gly Arg Ile Asp Pro Asn Asn Gly Asp Thr Asn Tyr Asn
 1 5 10

<210> 80
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 80
 Ile Ala Arg Ile Arg Ser Asn Ser Asn Asp Tyr Ala Thr Asn Tyr Ser
 1 5 10 15

<210> 81
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 81
 Ile Gly Asp Ile Tyr Pro Gly Ser Asp Asn Arg Asn Phe Asn

735022000940_SEQLIST

1 5 10

<210> 82
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 82
 Val Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala
 1 5 10 15

<210> 83
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 83
 Ile Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn
 1 5 10

<210> 84
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 84
 Glu Gly Val Ile Arg Arg Lys Ser Ser Asn Phe Ala Thr Leu Tyr Ala
 1 5 10 15

<210> 85
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 85

Thr	Arg	Gly	Tyr	Gly	Tyr	Tyr	Arg	Thr	Pro	Phe	Ala	Asn
1				5					10			

<210> 86

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 86

Ala	Arg	Gly	Gly	Ser	His	Tyr	Tyr	Ala	Met	Asp	Tyr
1				5					10		

<210> 87

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 87

Thr	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met
1				5					10					15	

Asp Tyr

<210> 88

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 88

Arg	Leu	Gly	Val	Phe	Asp	Tyr
1				5		

735022000940_SEQLIST

<210> 89
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 89
 Val Arg His Gly Asp Gly Asn Leu Trp Tyr Ile Asp Val
 1 5 10

<210> 90
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 90
 Val Leu Thr Gly Thr Asp Phe Asp Tyr
 1 5

<210> 91
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 91
 Ala Arg Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr
 1 5 10

<210> 92
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 92

735022000940_SEQLIST

Val Arg His Lys Ser Asn Arg Tyr Pro Gly Val Tyr
 1 5 10

<210> 93
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 93
 Thr Ser Leu Tyr Asp Gly Tyr Tyr Leu Arg Phe Ala Tyr
 1 5 10

<210> 94
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 2, 4
 <223> Xaa = Glutamic acid or Glutamine

<400> 94
 Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr
 1 5 10

<210> 95
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 95
 Val Arg Thr Asn Trp Asp Gly Asp Phe
 1 5

735022000940_SEQLIST

<210> 96
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 96
 Ser Arg Glu Lys Gly Ala Asp Tyr Tyr Gly Ser Thr Tyr Ser Ala Trp
 1 5 10 15
 Phe Ser Tyr

<210> 97
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 97
 Ala Arg Leu Leu Arg Asn Gln Pro Gly Glu Ser Tyr Ala Met Asp Tyr
 1 5 10 15

<210> 98
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 98
 Val Met Thr Gly Thr Asp Phe Asp Tyr
 1 5

<210> 99
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000940_SEQLIST

<400> 99

Val Gly His Lys Ile Asn Asn Tyr Pro Phe Ala His
1 5 10

<210> 100

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 100

Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr
1 5 10

<210> 101

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 101

Ala Arg Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr
1 5 10

<210> 102

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 102

Val Arg His Lys Ser Asn Lys Tyr Pro Phe Val Tyr
1 5 10

<210> 103

<211> 23

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = Glutamic acid or Glutamine

<400> 103

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

<210> 104

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 104

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

<210> 105

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = Glutamic acid or Glutamine

<400> 105

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

735022000940_SEQLIST

Gln Pro Ala Ser Ile Ser Cys
20

<210> 106
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 106
Val Leu Thr Gln Ser Pro Ala Leu Met Ser Ala Ser Pro Gly Glu Lys
1 5 10 15
Val Thr Met Thr Cys
20

<210> 107
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 3
<223> Xaa = Glutamic acid or Glutamine

<400> 107
Asp Val Xaa Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys
20

<210> 108
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>

735022000940_SEQLIST

<221> VARIANT

<222> 10

<223> Xaa = Glutamic acid or Glutamine

<400> 108

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

<210> 109

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 109

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

<210> 110

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 110

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

<210> 111

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 111

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

<210> 112

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 112

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

<210> 113

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 10, 12

<223> Xaa = Glutamic acid or Glutamine

<400> 113

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

<210> 114

<211> 23

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 114

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

<210> 115

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = Glutamic acid or Glutamine

<400> 115

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

<210> 116

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 116

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

<210> 117

<211> 22

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 13

<223> Xaa = Glutamic acid or Glutamine

<400> 117

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

<210> 118

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = Glutamic acid or Glutamine

<400> 118

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

<210> 119

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 119

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

Met Thr Cys

<210> 120

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 120

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

<210> 121

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 121

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

<210> 122

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 122

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

<210> 123

<211> 15

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 123

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

<210> 124

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 124

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

<210> 125

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 125

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

<210> 126

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 126

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

<210> 127

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 127
 Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val Tyr
 1 5 10 15

<210> 128
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 2, 3, 4
 <223> Xaa = Any Amino Acid

<400> 128
 Trp Xaa Xaa Xaa Lys Pro Arg Ser Ser Pro Lys Pro Gly Ile Tyr
 1 5 10 15

<210> 129
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa = Glutamic acid or Glutamine

<400> 129
 Trp Tyr Gln Gln Lys Pro Gly Gln Pro Xaa Lys Leu Leu Ile Tyr
 1 5 10 15

735022000940_SEQLIST

<210> 130
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 130
 Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser
 1 5 10 15
 Leu Arg Ile Asn Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys
 20 25 30

<210> 131
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 132
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 132
 Gly Val Pro Asp Arg Phe Ala Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Lys Ile Ser Arg Leu Glu Ala Asp Asp Leu Gly Ile Tyr Tyr Cys
 20 25 30

<210> 133
 <211> 32
 <212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 133

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

<210> 134

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 134

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

<210> 135

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 135

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

<210> 136

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 136

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

<210> 137

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 137

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

<210> 138

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 17

<223> Xaa = Glutamic acid or Glutamine

<400> 138

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

<210> 139

<211> 32

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 139

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

<210> 140

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 140

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

<210> 141

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 22

<223> Xaa = Glutamic acid or Glutamine

<400> 141

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

<210> 142

<211> 32

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 142

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

<210> 143

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 143

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

<210> 144

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 144

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

<210> 145

<211> 33

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 15

<223> Xaa = Any Amino Acid

<400> 145

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

<210> 146

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 11

<223> Xaa = Glutamic acid or Glutamine

<400> 146

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

<210> 147

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 147

Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
1				5				10						15	

735022000940_SEQLIST

Leu Thr Ile Ser Thr Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys
 20 25 30

<210> 148
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 148
 Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 149
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 149
 Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 1 5 10

<210> 150
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 150
 Phe Gly Gly Gly Thr Lys Leu Val Ile Lys
 1 5 10

<210> 151
 <211> 10
 <212> PRT
 <213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 151

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

<210> 152

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 152

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

<210> 153

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 153

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

<210> 154

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 154

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

<210> 155

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 155
 Phe Gly Gly Gly Thr Lys Leu Glu Met Lys
 1 5 10

<210> 156
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 156
 Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
 20 25

<210> 157
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 157
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Thr
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Thr Ser Gly
 20 25

<210> 158
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 158

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

<210> 159

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 159

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	Ala	Ala	Ser	Gly						
			20					25							

<210> 160

<211> 26

<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	Lys	Gly
1				5					10					15	
Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ser	Gly						
			20					25							

<210> 161

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 161

735022000940_SEQLIST

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> 162
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1
 <223> Xaa = Glutamic acid or Glutamine

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

<210> 163
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 164
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000940_SEQLIST

<220>

<221> VARIANT

<222> 6, 7, 11, 19, 20, 24

<223> Xaa = Glutamic acid or Glutamine

<220>

<221> VARIANT

<222> 18

<223> Xaa = Any Amino Acid

<400> 164

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

<210> 165

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 165

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	Thr	Ala	Ser	Gly						
			20					25							

<210> 166

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 166

Leu	Ser	Cys	Ala	Ala	Ser	Gly
1				5		

<210> 167

<211> 26

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 167

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

<210> 168

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 168

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

<210> 169

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 169

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

<210> 170

<211> 26

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 170

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

<210> 171

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 171

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

<210> 172

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 172

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

<210> 173

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 173

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

<210> 174

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 174

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

<210> 175

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 175

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

<210> 176

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 176

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

735022000940_SEQLIST

<210> 177

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 177

Trp Val Lys Gln Thr Pro Val His Gly Leu Glu Trp
1 5 10

<210> 178

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 178

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

<210> 179

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 179

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

<210> 180

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 180

735022000940_SEQLIST

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

<210> 181

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 181

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

<210> 182

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 182

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

<210> 183

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 183

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

<210> 184

<211> 12

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 184

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

<210> 185

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 185

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

<210> 186

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 186

Trp	Met	Lys	Gln	Ser	His	Gly	Lys	Ser	Leu	Glu	Trp
1				5					10		

<210> 187

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 187

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

<210> 188

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 188
 Asp Ser Val Gln Gly Arg Phe Thr Phe Ser Arg Asp Asn Ala Arg Asn
 1 5 10 15
 Ile Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Cys
 35

<210> 189
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 189
 Gln Lys Phe Lys Gly Lys Ala Ser Leu Thr Val Asp Lys Ser Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Glu Leu His Ser Leu Ala Ser Asp Asp Ser Ala Val
 20 25 30
 Tyr Tyr Cys
 35

<210> 190
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 190
 Gln Lys Phe Lys Gly Lys Ala Ile Leu Thr Ala Asp Lys 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

735022000940_SEQLIST

<210> 191
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 191
 Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser
 1 5 10 15
 Thr Val Tyr Leu Gln Met Asn Thr Leu Arg Ala Asp Asp Thr Gly Ile
 20 25 30
 Tyr Tyr Cys
 35

<210> 192
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 192
 Asp Ser Val Lys Asp Arg Ile Thr Cys Ser Arg Asp Asp Ser Glu Asn
 1 5 10 15
 Met Phe Tyr Leu Gln Leu Ser Ser Leu Lys Thr Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Cys
 35

<210> 193
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 193
 Glu Lys Phe Lys Thr Lys Ala Thr Leu Thr Val Asp Lys Pro Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Gln Val Ser Ser Leu Thr Ser Glu Asp Ser Ala Val

735022000940_SEQLIST

Tyr Tyr Cys 20 735022000940_SEQLIST 30
 35
 25

<210> 194
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 195
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 195
 Asp Ser Val Lys Asp Arg Phe Thr Cys Ser Arg Asp Asp Ser Glu Asn
 1 5 10 15
 Met Phe Tyr Leu Gln Leu Ser Ser Leu Lys Thr Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Cys
 35

<210> 196
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 196

735022000940_SEQLIST

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

<210> 197

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 9, 20, 24, 25, 27, 35

<223> Xaa = Glutamic acid or Glutamine

<400> 197

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

<210> 198

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 198

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

<210> 199

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 23
 <223> Xaa = Glutamic acid or Glutamine

<400> 199
 Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Glu Ser
 1 5 10 15
 Met Leu Tyr Leu Gln Met Xaa Asn Leu Lys Thr Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Cys
 35

<210> 200
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 30
 <223> Xaa = Glutamic acid or Glutamine

<400> 200
 Glu Lys Phe Arg Asn Lys Ala Ile Leu Thr Val Asp Lys Pro Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Xaa Ala Val
 20 25 30
 Tyr Tyr Cys
 35

<210> 201
 <211> 35
 <212> PRT
 <213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 201

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

<210> 202

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 202

Gly	Glu	Phe	Arg	Val	Arg	Ala	Thr	Leu	Thr	Ala	Asp	Thr	Ser	Ser	Thr
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> 203

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 203

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

<210> 204

<211> 35

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 204

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

<210> 205

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 205

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

<210> 206

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 206

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

735022000940_SEQLIST

<210> 207
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 34
 <223> Xaa = Glutamic acid or Glutamine

<400> 207
 Gln Glu Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
 1 5 10 15
 Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Phe Glu Asp Ser Ala Val
 20 25 30
 Tyr Xaa Cys
 35

<210> 208
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 208
 Asp Ser Val Lys Asp Arg Phe Arg Ala Ser Arg Asp Asp Ser Glu Ser
 1 5 10 15
 Met Leu Tyr Val Gln Met Ser Asn Trp Lys Gln Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Gly
 35

<210> 209
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000940_SEQLIST

<400> 209

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

<210> 210

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 210

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

<210> 211

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 211

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

<210> 212

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 212

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

<210> 213

<211> 11

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 213

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

<210> 214

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 214

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

<210> 215

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 215

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

<210> 216

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 216

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

735022000940_SEQLIST

<210> 217
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 217
 Trp Gly Arg Gly Thr Leu Val
 1 5

<210> 218
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 218
 Trp Gly Gln Gly Thr
 1 5

<210> 219
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Glutamic acid or Glutamine

<400> 219
 Asp Ile Xaa Val Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Phe
 20 25 30
 Leu Ala Trp Tyr Gln Leu Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
 35 40 45
 Tyr Asn Ser Lys Thr Phe Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

735022000940_SEQLIST

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

<210> 220
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 220
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 Glu Asn Ile Tyr Ser Phe
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Asn Ser Lys Thr Phe Ala Glu 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 Gln His His Tyr Gly Thr Pro Pro
85 90 95
Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 221
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 221
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 Glu Asn Ile Tyr Ser Phe
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

735022000940_SEQLIST

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

<210> 222
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 222
 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 Glu Asn Ile Tyr Ser Phe
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asn Ser Lys Thr Phe Ala Glu 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 Gln His His Tyr Gly Thr Pro Pro
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 223
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 223
 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 Glu Asn Ile Tyr Ser Phe
 20 25 30

735022000940_SEQLIST

```

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

```

<210> 224

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 224

```

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

```

<210> 225

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 225

```

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

```

735022000940_SEQLIST

```

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

```

<210> 226
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

```

<400> 226
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 Glu Asn Ile Tyr Ser Phe
      20      25      30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
      35      40      45
Tyr Asn Ser Lys Thr Phe Ala Glu 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 Gln His His Tyr Gly Thr Pro Pro
      85      90      95
Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
      100      105

```

<210> 227
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 227

735022000940_SEQLIST

```

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

```

<210> 228

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 228

```

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

```

<210> 229

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 229

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

<210> 230

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 230

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

<210> 231

<211> 113

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 231

```

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

```

<210> 232

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 232

```

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

```

735022000940_SEQLIST

<210> 233
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 234
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022000940_SEQLIST

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

<210> 235

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 235

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

<210> 236

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 236

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

735022000940_SEQLIST

```

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

```

<210> 237

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 237

```

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

```

<210> 238

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 238

```

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

```

<210> 239

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 239

```

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

```

<210> 240

<211> 113

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 240

```

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

```

<210> 241

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = Glutamic acid or Glutamine

<400> 241

```

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

```

735022000940_SEQLIST

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

<210> 242

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 242

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

<210> 243

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 243

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

735022000940_SEQLIST

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

<210> 244
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 245
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 245															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Val	Gly
1				5				10						15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser
			20					25					30		
Asn	Gly	Lys	Thr	Phe	Leu	Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala

735022000940_SEQLIST

```

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

```

<210> 246

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 246

```

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

```

<210> 247

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 247

```

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

```

735022000940_SEQLIST

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

<210> 248

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 248

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

<210> 249

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 249

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

735022000940_SEQLIST

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

<210> 250

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 250

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

<210> 251

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 251

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

<210> 252

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = Glutamic acid or Glutamine

<400> 252

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

<210> 253

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 253

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

<210> 254
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 254

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

735022000940_SEQLIST

<210> 255
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 255
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Pro
 35 40 45
 Pro Lys Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Trp Gln Gly
 85 90 95
 Thr His Phe Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 256
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 256
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Trp Gln Gly
 85 90 95
 Thr His Phe Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

735022000940_SEQLIST

100

105

110

<210> 257
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 257

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

<210> 258
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 258

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

735022000940_SEQLIST

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

<210> 259

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 259

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

<210> 260

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 260

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

735022000940_SEQLIST

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

<210> 261

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 261

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

<210> 262

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 262

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

735022000940_SEQLIST

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

<210> 263

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 263

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

<210> 264

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 264

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	Ser	Ala	Ser	Ser	Ser	Val	Ser	Tyr	Met
			20					25					30		
Tyr	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile	Tyr

735022000940_SEQLIST

```

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

```

<210> 265
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

```

<400> 265
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 Ser Ala Ser Ser Ser Val Ser Tyr Met
      20              25              30
Tyr Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
      35              40              45
Leu Thr Ser Ile Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
      50              55              60
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu
65              70              75              80
Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Phe Asn Pro Tyr Thr
      85              90              95
Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
      100              105

```

<210> 266
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

```

<400> 266
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 Ser Ala Ser Ser Ser Val Ser Tyr Met

```


735022000940_SEQLIST

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

<210> 267

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 267

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

<210> 268

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 268

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

735022000940_SEQLIST

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

<210> 269

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 269

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

<210> 270

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 270

```

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

```

<210> 271

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 271

```

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

```

<210> 272

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 272

```

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

```

<210> 273

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 273

```

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

```

<210> 274

<211> 112

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = Glutamic acid or Glutamine

<400> 274

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

<210> 275

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 275

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

735022000940_SEQLIST

100

105

110

<210> 276
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 276

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

<210> 277
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 277

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

735022000940_SEQLIST

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

<210> 278

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 278

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

<210> 279

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 279

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

735022000940_SEQLIST

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

<210> 280

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 280

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

<210> 281

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 281

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

735022000940_SEQLIST

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

<210> 282

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 282

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

<210> 283

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 283

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	Ser	Ser	Gln	Ser	Leu	Val	His	Ser
		20					25					30			
Asn	Gly	Asn	Thr	Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala

735022000940_SEQLIST

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

<210> 284
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 285
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa = Glutamic acid or Glutamine

735022000940_SEQLIST

<400> 285

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

<210> 286

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 286

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

<210> 287

<211> 112

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 287

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

<210> 288

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 288

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

<210> 289

<211> 112

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 289

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

<210> 290

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 290

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

<210> 291

735022000940_SEQLIST

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 291

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

<210> 292

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 292

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

735022000940_SEQLIST

<210> 293
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 293

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

<210> 294
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 294

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

735022000940_SEQLIST

100

105

110

<210> 295

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 295

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

<210> 296

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 296

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

735022000940_SEQLIST

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

<210> 297

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 297

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

<210> 298

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 78

<223> Xaa = Glutamic acid or Glutamine

<400> 298

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

735022000940_SEQLIST

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

<210> 299

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 299

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

<210> 300

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 300

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

735022000940_SEQLIST

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

<210> 301

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 301

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

<210> 302

<211> 113

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 302

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

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<210> 303

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 303

```

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

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735022000940_SEQLIST

<210> 304
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 304
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asp Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 305
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 305
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Ser Asp Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln

735022000940_SEQLIST

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

<210> 306

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 306

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

<210> 307

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 307

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

735022000940_SEQLIST

```

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

```

<210> 308

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 308

```

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

```

<210> 309

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 309

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

<210> 310

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = Glutamic acid or Glutamine

<400> 310

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

735022000940_SEQLIST

<210> 311
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 10, 12, 76
 <223> Xaa = Glutamic acid or Glutamine

<400> 311
 Gln Met Ser Gln Ser Pro Ala Cys Leu Xaa Ala Xaa Val Gly Glu Ser
 1 5 10 15
 Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr Leu Ala
 20 25 30
 Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Lys Leu Val Val Tyr Lys
 35 40 45
 Ala Lys Thr Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly Arg Gly
 50 55 60
 Ser Gly Thr Gln Phe Phe Leu Lys Ile Asn Ser Xaa Gln Arg Glu Asp
 65 70 75 80
 Phe Gly Ser Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Phe Thr Phe
 85 90 95
 Gly Ser Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 312
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 312
 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 Glu Asn Ile Tyr Ser Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Lys Ala Lys Thr Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

735022000940_SEQLIST

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

<210> 313
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 314
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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	Glu	Asn	Ile	Tyr	Ser	Tyr
			20					25					30		
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35					40					45			

735022000940_SEQLIST

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

<210> 315

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 315

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

<210> 316

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 316

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

735022000940_SEQLIST

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

<210> 317

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 317

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

<210> 318

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 318

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

735022000940_SEQLIST

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

<210> 319

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 319

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

<210> 320

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 320

735022000940_SEQLIST

```

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

```

<210> 321

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 321

```

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

```

<210> 322

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 322

```

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

```

<210> 323

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 323

```

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

```

<210> 324

<211> 107

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 324

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

<210> 325

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 325

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

<210> 326

<211> 107

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 326

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

<210> 327

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 327

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

<210> 328

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 328

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

<210> 329
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 329

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

735022000940_SEQLIST

<210> 330
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 330

```

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

```

<210> 331
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 331

```

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

```

100

105

<210> 332
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 332
 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 Thr Ser Glu Asn Val Tyr Ser Asn
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Thr Asn Leu Ala 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 His His Phe Trp Gly Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 333
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = Glutamic acid or Glutamine

<400> 333
 Asp Val Xaa Met Thr Gln Asn Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Tyr Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

<210> 334

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 334

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

<210> 335

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 335

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 Ser Ser Gln Ser Leu Val His Ser
 20 25 30

735022000940_SEQLIST

```

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

```

<210> 336

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 336

```

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

```

<210> 337

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 337

```

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

```

735022000940_SEQLIST

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

<210> 338

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 338

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

<210> 339

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 339

735022000940_SEQLIST

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

<210> 340

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 340

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

<210> 341

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 341

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

<210> 342

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 342

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

<210> 343

<211> 112

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 343

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

<210> 344

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 344

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

<210> 345

<211> 112

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 345

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

<210> 346

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 346

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

<210> 347

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 347

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

<210> 348
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 348

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

735022000940_SEQLIST

<210> 349
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 349

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

<210> 350
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 350

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

735022000940_SEQLIST

100

105

110

<210> 351
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 351
 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 Phe Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr Arg Val Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 352
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 352
 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 Phe Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ser Gln Ser

735022000940_SEQLIST

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

<210> 353

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 353

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

<210> 354

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 354

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

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

<210> 355

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 355

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

<210> 356

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 356

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	Ser	Asn	Val	Asn	Tyr	Met
			20					25					30		
Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Tyr

735022000940_SEQLIST

```

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

```

<210> 357

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 357

```

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

```

<210> 358

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 358

```

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 Ser Asn Val Asn Tyr Met

```

735022000940_SEQLIST

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

<210> 359

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 359

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

<210> 360

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 360

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

735022000940_SEQLIST

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

<210> 361

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 361

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

<210> 362

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 362

```

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

```

<210> 363

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 363

```

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

```

<210> 364

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 364

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

<210> 365

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 365

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

<210> 366

<211> 112

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 366

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

<210> 367

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 367

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

<210> 368

<211> 112

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 368

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

<210> 369

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 369

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

735022000940_SEQLIST

<210> 370
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 370

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

<210> 371
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 371

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

735022000940_SEQLIST

<210> 372
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 372
 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 Ser Ser Gln Thr Ile Ile His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Cys Gly Ile Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Phe Gln Gly
 85 90 95
 Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 373
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 373
 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 Ser Ser Gln Thr Ile Ile His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Cys Gly Val Pro
 50 55 60
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
 85 90 95

735022000940_SEQLIST

Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 374

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 374

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

<210> 375

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 375

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

735022000940_SEQLIST

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

<210> 376

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3, 50, 73

<223> Xaa = Glutamic acid or Glutamine

<400> 376

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

Lys

<210> 377

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 377

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

735022000940_SEQLIST

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

Lys

<210> 378

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 378

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

Lys

<210> 379

<211> 113

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 379

```

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

```

<210> 380

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 380

```

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

```

735022000940_SEQLIST

<210> 381
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 381
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30
 Gly Asn Gln Lys Lys Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Asn
 85 90 95
 Asp Tyr Gly Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 382
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 382
 Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30
 Gly Asn Gln Lys Lys Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
 65 70 75 80

735022000940_SEQLIST

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

<210> 383
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 383
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30
Gly Asn Gln Lys Lys Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45
Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Asn
85 90 95
Asp Tyr Gly Phe Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 384
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 384
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

735022000940_SEQLIST

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

Lys

<210> 385

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 385

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

Lys

<210> 386

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 386

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

<210> 387

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 387

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

<210> 388

<211> 113

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 388

```

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

```

<210> 389

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 389

```

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

```

735022000940_SEQLIST

<210> 390
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 390
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Gly Asn Gln Lys Asn Phe Leu Ala Trp Phe Gln Gln Arg Pro Gly Gln
 35 40 45
 Ser Pro Arg Arg Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys

<210> 391
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 391
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Gly Asn Gln Lys Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr

735022000940_SEQLIST

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

<210> 392
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 392															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser
			20					25					30		
Gly	Asn	Gln	Lys	Asn	Phe	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys
		35					40					45			
Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	Glu	Ser	Gly	Val
	50					55					60				
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr
65					70					75				80	
Ile	Ser	Ser	Leu	Gln	Pro	Asp	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
				85					90					95	
Tyr	Tyr	Ser	Tyr	Pro	Phe	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110		
Lys															

<210> 393
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 393															
Glu	Ile	Val	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Val	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	Tyr	Ser

735022000940_SEQLIST

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

Lys

<210> 394

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 394

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

Lys

<210> 395

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 395

```

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

```

<210> 396

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 396

```

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

```

735022000940_SEQLIST

<210> 397
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 397

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

Lys

<210> 398
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 398

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

735022000940_SEQLIST

Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 100 105 110

<210> 399

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 399

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

<210> 400

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 400

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 Leu Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Pro Ser Leu Lys
 50 55 60

735022000940_SEQLIST

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

<210> 401

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 401

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

<210> 402

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 402

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

735022000940_SEQLIST

```

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

```

<210> 403

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 403

```

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

```

<210> 404

<211> 119

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 404

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

<210> 405

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 405

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

735022000940_SEQLIST

<210> 406
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 406
 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 Leu Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Pro Ser Phe Gln
 50 55 60
 Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr Leu
 65 70 75 80
 Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys Thr
 85 90 95
 Arg Gly Tyr Gly Tyr Tyr Arg Thr Pro Phe Ala Asn Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 407
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 407
 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 Leu Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Ser Arg Gly Gly Ser Thr Tyr Tyr Pro Pro Ser Leu Lys
 50 55 60
 Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
 65 70 75 80
 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Thr

735022000940_SEQLIST

				85					90					95			
Arg	Gly	Tyr	Gly	Tyr	Tyr	Arg	Thr	Pro	Phe	Ala	Asn	Trp	Gly	Gln	Gly		
			100					105					110				
Thr	Leu	Val	Thr	Val	Ser	Ser											
			115														

<210> 408

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 408

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

<210> 409

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 409

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

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

```

<210> 410

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 410

```

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

```

<210> 411

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 411

```

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

```

<210> 412

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 412

```

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

```

<210> 413

<211> 119

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 413

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

<210> 414

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 414

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

735022000940_SEQLIST

Thr Leu Val Thr Val Ser Ser
115

<210> 415

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 415

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

<210> 416

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 416

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 Glu Tyr
20 25 30
Thr Met His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser Pro Ser Leu
50 55 60

735022000940_SEQLIST

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

<210> 417
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 417
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 Glu Tyr
20 25 30
Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Ser Ala Pro Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 418
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 418
Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15

735022000940_SEQLIST

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

<210> 419

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 419

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

<210> 420

<211> 125

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 420

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		
Glu	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	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	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125			

<210> 421

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 421

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		
Glu	Met	His	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	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	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125			

735022000940_SEQLIST

<210> 422
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 422
 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
 Glu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala 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 Ser Pro Asp Tyr Tyr Gly Ser Ser Tyr Pro Leu Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 423
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 423
 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
 Glu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Val Ile Asp Pro Glu Thr Gly Gly Thr Ala 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

735022000940_SEQLIST

				85					90				95			
Thr	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met	
			100					105					110			
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser				
		115					120					125				

<210> 424

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 424

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			
Glu	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile	
	35					40						45				
Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	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	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met	
		100					105						110			
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser				
		115					120					125				

<210> 425

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 425

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			
Glu	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	

735022000940_SEQLIST

	35					40				45					
Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	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	
Thr	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met
		100					105						110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125			

<210> 426

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 426

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		
Glu	Met	His	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35				40					45				
Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	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	
Thr	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met
		100					105						110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125			

<210> 427

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 427

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	
Glu	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	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	
Thr	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met
			100					105						110	
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125			

<210> 428

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 428

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	
Glu	Met	His	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Val	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	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	
Thr	Ser	Pro	Asp	Tyr	Tyr	Gly	Ser	Ser	Tyr	Pro	Leu	Tyr	Tyr	Ala	Met
			100					105						110	
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
		115					120					125			

<210> 429

<211> 116

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 429

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

<210> 430

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 430

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

735022000940_SEQLIST

Thr Val Ser Ser
115

<210> 431
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 431
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 Asp Ala
20 25 30
Trp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ala Glu Ile Arg Asp Lys Val Lys Asn His Ala Thr Tyr Tyr Ala 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 Arg Leu Gly Val Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110
Thr Val Ser Ser
115

<210> 432
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 432
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 Asp Ala
20 25 30
Trp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ala Glu Ile Arg Asp Lys Val Lys Asn His Ala Thr Tyr Tyr Ala Asp
50 55 60

735022000940_SEQLIST

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

<210> 433
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 433

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

<210> 434
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 434

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

735022000940_SEQLIST

```

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

```

<210> 435

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 435

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

```

<210> 436

<211> 116

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 436

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

<210> 437

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 437

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

735022000940_SEQLIST

<210> 438
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 438

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

<210> 439
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 439

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

735022000940_SEQLIST

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

<210> 440

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 440

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

<210> 441

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 441

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	Ser	Phe	Asn	Thr	Tyr		
		20						25					30				
Ala	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile		

735022000940_SEQLIST

		35					40					45			
Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	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	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

$\langle 210 \rangle$ 442

$\langle 211 \rangle$ 122

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 442

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

<210> 443

<211> 122

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

735022000940_SEQLIST

<400> 443

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

<210> 444

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 444

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

<210> 445

<211> 122

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 445

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

<210> 446

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 446

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

735022000940_SEQLIST

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 447

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 447

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

<210> 448

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 448

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 Phe Ser Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala Pro
 50 55 60

735022000940_SEQLIST

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	Val	Arg	His	Gly	Asp	Gly	Asn	Leu	Trp	Tyr	Ile	Asp	Val	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 449

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 449

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

<210> 450

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 450

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

735022000940_SEQLIST

```

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

```

<210> 451

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 451

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

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<210> 452

<211> 116

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 452

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

<210> 453

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 453

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

735022000940_SEQLIST

<210> 454
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 454
 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 Val Ser Arg Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Asp Pro Asn Ser Gly Gly 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
 Val Leu Thr Gly Thr Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 455
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 455
 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 Val Ser Arg Tyr
 20 25 30
 Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Asp Pro Asn Ser Gly Gly 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

735022000940_SEQLIST

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

<210> 456

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 456

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

<210> 457

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 457

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	Val	Ser	Arg	Tyr		
			20					25					30				
Trp	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile		

735022000940_SEQLIST

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

<210> 458

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 458

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

<210> 459

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<220>

<221> VARIANT

<222> 1

<223> Xaa = Glutamic acid or Glutamine

<400> 459

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

<210> 460

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 460

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

115

120

<210> 461
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 461

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

<210> 462
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 462

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

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

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<210> 463
<211> 120
<212> PRT
<213> Artificial Sequence
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<220>
<223> Synthetic Construct

<400> 463															
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	Pro	Phe	Ser	Asn	Phe
			20					25						30	
Trp	Ile	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Asp	Ile	Tyr	Pro	Gly	Ser	Asp	Asn	Ser	Asn	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105						110	
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

```
<210> 464
<211> 120
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Synthetic Construct

<400> 464
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 Pro Phe Ser Asn Phe

735022000940_SEQLIST

```

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

```

<210> 465

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 465

```

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

```

<210> 466

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 466

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

<210> 467

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 467

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

735022000940_SEQLIST

<210> 468
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 468

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

<210> 469
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 469

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

735022000940_SEQLIST

Ala Arg Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 470

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 470

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

<210> 471

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 6, 7, 11, 19, 20, 24, 72, 83, 87, 88, 90, 98

<223> Xaa = Glutamic acid or Glutamine

<220>

<221> VARIANT

735022000940_SEQLIST

<222> 18

<223> Xaa = Any Amino Acid

<400> 471

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

<210> 472

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 472

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

735022000940_SEQLIST

<210> 473
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 473

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

<210> 474
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 474

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

735022000940_SEQLIST

				85					90					95			
Tyr	Cys	Val	Arg	His	Lys	Ser	Asn	Arg	Tyr	Pro	Gly	Val	Tyr	Trp	Gly		
			100					105					110				
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser									
		115					120										

<210> 475

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 475

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

<210> 476

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 476

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	Leu	Thr	Ser	Asn	Thr	Tyr		
			20					25					30				
Thr	Gln	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Glu		

		35					40					45			
Ser	Val	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Phe	Ser	Thr	Leu	Tyr	Ala	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	Val	Arg	His	Lys	Ser	Asn	Arg	Tyr	Pro	Gly	Val	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

$\langle 211 \rangle$ 121

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 477

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

<210> 478

$\langle 211 \rangle$ 121

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

735022000940_SEQLIST

<400> 478

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

<210> 479

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 479

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

<210> 480

<211> 121

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 480

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

<210> 481

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 481

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

735022000940_SEQLIST

Gly Gln Gly Thr Leu Val Thr Val Ser Ala
 115 120

<210> 482
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 482
 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 Asp Ala
 20 25 30
 Trp Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Trp
 35 40 45
 Val Ala Glu Ile Arg Asn Lys Val Asn Asn His Ala Thr Tyr Tyr 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 Cys Thr Ser Leu Tyr Asp Gly Tyr Tyr Leu Arg Phe Ala Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 483
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 483
 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 Asp Ala
 20 25 30
 Trp Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Trp
 35 40 45
 Val Ala Glu Ile Arg Asn Lys Val Asn Asn His Ala Thr Tyr Tyr Asp
 50 55 60

735022000940_SEQLIST

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	Cys	Thr	Ser	Leu	Tyr	Asp	Gly	Tyr	Tyr	Leu	Arg	Phe	Ala	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 484

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 484

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

<210> 485

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 485

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5				10						15	

735022000940_SEQLIST

```

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

```

<210> 486

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 486

```

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

```

<210> 487

<211> 122

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 487

```

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

```

<210> 488

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 488

```

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

```

735022000940_SEQLIST

<210> 489
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 489

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

<210> 490
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 490

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

735022000940_SEQLIST

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

<210> 491
 <211> 102
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 36, 67, 81, 83
 <223> Xaa = Glutamic acid or Glutamine

<400> 491																	
Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asn	Thr	Tyr	Ser	Met	Asn		
1				5					10					15			
Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ala	His	Ile		
		20						25					30				
Lys	Thr	Lys	Xaa	Asn	Asn	Phe	Ala	Thr	Phe	Tyr	Ala	Asp	Ser	Val	Lys		
		35					40					45					
Asp	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Glu	Ser	Met	Leu	Tyr	Leu		
	50					55					60						
Gln	Met	Xaa	Asn	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Val		
65					70					75					80		
Xaa	His	Xaa	Ser	Asn	Asn	Tyr	Pro	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr		
				85					90					95			
Leu	Val	Thr	Val	Ser	Ala												
			100														

<210> 492
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102

735022000940_SEQLIST

<223> Xaa = Glutamic acid or Glutamine

<400> 492

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

<210> 493

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 55, 100, 102

<223> Xaa = Glutamic acid or Glutamine

<400> 493

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

735022000940_SEQLIST

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

<210> 494
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

<400> 494
 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 Asn Thr Tyr
 20 25 30
 Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala 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 Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 495
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102

735022000940_SEQLIST

<223> Xaa = Glutamic acid or Glutamine

<400> 495

```

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

```

<210> 496

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 55, 100, 102

<223> Xaa = Glutamic acid or Glutamine

<400> 496

```

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

```

735022000940_SEQLIST

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

<210> 497
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

<400> 497
 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 Asn Thr Tyr
 20 25 30
 Ser Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala 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 Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 498
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102

735022000940_SEQLIST

<223> Xaa = Glutamic acid or Glutamine

<400> 498

```

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

```

<210> 499

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 55, 100, 102

<223> Xaa = Glutamic acid or Glutamine

<400> 499

```

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

```

735022000940_SEQLIST

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

<210> 500
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 55, 100, 102
 <223> Xaa = Glutamic acid or Glutamine

<400> 500
 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 Phe Thr Phe Asn Thr Tyr
 20 25 30
 Ser Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala His Ile Lys Thr Lys Xaa Asn Asn Phe Ala Thr Phe Tyr Ala 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 Val Xaa His Xaa Ser Asn Asn Tyr Pro Phe Ala Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 501
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 91

735022000940_SEQLIST

<223> Xaa = Glutamic acid or Glutamine

<400> 501

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

<210> 502

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 502

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

735022000940 SEQLIST

<210> 503

<211> 116

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 503

[illegible]

<210> 504

$\langle 211 \rangle$ 116

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

<400> 504

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

735022000940_SEQLIST

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

<210> 505

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 505

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

<210> 506

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 506

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

735022000940_SEQLIST

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

<210> 507

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 507

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

<210> 508

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 508

735022000940_SEQLIST

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

<210> 509

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 509

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

<210> 510

<211> 116

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 510

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

<210> 511

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 511

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

735022000940_SEQLIST

115

120

125

<210> 512
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 512

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr
			20					25					30		
Trp	Met	Ser	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	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		
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
			100					105					110		
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
		115					120					125			

<210> 513
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 513

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

735022000940_SEQLIST

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

<210> 514
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 514															
Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr
			20					25					30		
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35				40						45			
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	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	
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
			100					105					110		
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
			115				120						125		

<210> 515
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 515															
Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr

735022000940_SEQLIST

	20		25		30										
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
	35		40		45										
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	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										
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
	100		105		110										
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
	115		120		125										

<210> 516

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 516

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr
	20		25		30										
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
	35		40		45										
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	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										
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
	100		105		110										
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
	115		120		125										

<210> 517

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 517

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr
			20					25					30		
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	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	
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
			100					105					110		
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
		115					120					125			

<210> 518

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 518

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr
			20					25					30		
Trp	Met	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	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	
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
			100					105					110		
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
		115					120					125			

735022000940_SEQLIST

<210> 519
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 519

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Ala	Phe	Ser	Asn	Tyr
		20						25					30		
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35				40						45			
Gly	Gln	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	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		
Ser	Arg	Glu	Lys	Gly	Ala	Asp	Tyr	Tyr	Gly	Ser	Thr	Tyr	Ser	Ala	Trp
			100					105					110		
Phe	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
			115				120						125		

<210> 520
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 520

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

735022000940_SEQLIST

Ser Arg Glu Lys Gly Ala Asp Tyr Tyr Gly Ser Thr Tyr Ser Ala Trp
 100 105 110
 Phe Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 521

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 521

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

<210> 522

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 522

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

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

<210> 523

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 523

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

<210> 524

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 524

735022000940_SEQLIST

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

<210> 525

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 525

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

<210> 526

<211> 123

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 526

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

<210> 527

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 527

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

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115

120

<210> 528
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 528

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

<210> 529
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 529

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

735022000940_SEQLIST

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

<210> 530
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 530															
Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Gln
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Tyr	Ala	Phe	Ser	Ser	Ser
			20					25					30		
Trp	Met	Asn	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Arg	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Asn	Tyr	Asn	Pro	Ser	Leu
	50					55					60				
Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser
65					70				75					80	
Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Leu	Leu	Arg	Asn	Gln	Pro	Gly	Glu	Ser	Tyr	Ala	Met	Asp	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 531
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 531															
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	Ile	Phe	Thr	Thr	Tyr

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

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<210> 532

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 532

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

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<210> 533

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 533

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

<210> 534

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 534

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

735022000940_SEQLIST

<210> 535
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 535
 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 Ile Phe Thr Thr Tyr
 20 25 30
 Trp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Asp Pro Asn Asn Gly Asp Thr Asn Tyr Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Met Thr Gly Thr Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 536
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 536
 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 Ile Phe Thr Thr Tyr
 20 25 30
 Trp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Asp Pro Asn Asn Gly Asp Thr Asn Tyr Asn Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

735022000940_SEQLIST

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

<210> 537

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 537

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

<210> 538

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 538

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

735022000940_SEQLIST

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

<210> 539

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 539

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

<210> 540

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 540

735022000940_SEQLIST

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

<210> 541

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 541

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

<210> 542

<211> 120

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 542

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

<210> 543

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 543

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

735022000940_SEQLIST

115

120

<210> 544
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 544

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

<210> 545
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 545

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

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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	Glu	Ala	Tyr	Tyr	Thr	Asn	Pro	Gly	Phe	Ala	Tyr	Trp	Gly	Gln
		100						105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 546
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 546
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 Pro Phe Ser Asn Phe
20 25 30
Trp Ile Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Asp Ile Tyr Pro Gly Ser Asp Asn Arg Asn Phe 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 Glu Ala Tyr Tyr Thr Asn Pro Gly Phe Ala Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 547
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 547
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 Pro Phe Ser Asn Phe

735022000940_SEQLIST

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

<210> 548

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 548

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

<210> 549

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

735022000940 SEQLIST

<223> Synthetic Construct

<400> 549

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

$\langle 210 \rangle$ 550

$\langle 211 \rangle$ 120

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 550

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

735022000940_SEQLIST

<210> 551
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 551

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

<210> 552
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 552

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

735022000940_SEQLIST

Tyr Cys Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 553

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 553

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

<210> 554

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 554

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

735022000940_SEQLIST

Ala	Arg	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Tyr	Tyr	Ala	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	Val	Arg	His	Tyr	Ser	Asn	Tyr	Gly	Trp	Gly	Phe	Ala	Tyr	Trp
			100				105						110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 555

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 555

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

<210> 556

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 556

735022000940_SEQLIST

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

<210> 557

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 557

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

<210> 558

<211> 122

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 558

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

<210> 559

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 559

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

735022000940_SEQLIST

115

120

<210> 560
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 560
 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 Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr Tyr Ala 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 Val Arg His Tyr Ser Asn Tyr Gly Trp Gly Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 561
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 95
 <223> Xaa = Glutamic acid or Glutamine

<400> 561
 Gln Val Gln Leu Gln Gln Tyr Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Met Ser Cys Lys Val Ser Gly Tyr Thr Phe Ser Asp Tyr
 20 25 30

735022000940_SEQLIST

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

<210> 562

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 562

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

<210> 563

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 563

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

<210> 564

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 564

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

<210> 565

735022000940_SEQLIST

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 565

```

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

```

<210> 566

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 566

```

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

```

735022000940_SEQLIST

100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 567
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 567
 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 Ser Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn 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 Arg Gly Tyr Tyr Gly Gly Ser Tyr Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 568
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 568
 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 Ser Asp Tyr
 20 25 30
 Tyr Ile His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Pro Asn Asn Gly Asp Asn Gly Tyr Asn Pro Ser Leu

735022000940_SEQLIST

```

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

```

<210> 569

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 569

```

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

```

<210> 570

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 570

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

```

735022000940_SEQLIST

```

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

```

<210> 571

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 571

```

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

```

<210> 572

<211> 121

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 572

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

<210> 573

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 573

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

735022000940_SEQLIST

<210> 574
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 574
 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 Arg Phe Asn Thr Tyr
 20 25 30
 Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Glu
 35 40 45
 Gly Val Ile Arg Arg Lys Ser Ser Asn Phe Ala Thr Leu Tyr Ala 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 Val Arg His Lys Ser Asn Lys Tyr Pro Phe Val Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 575
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 575
 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 Arg Phe Asn Thr Tyr
 20 25 30
 Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Glu
 35 40 45
 Gly Val Ile Arg Arg Lys Ser Ser Asn Phe Ala Thr Leu Tyr Ala Asp
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80

735022000940_SEQLIST

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

<210> 576
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 576

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

<210> 577
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 577

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	Arg	Phe	Asn	Thr	Tyr
			20					25					30		

735022000940_SEQLIST

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

<210> 578

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 578

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

<210> 579

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 579

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

<210> 580

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 580

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

<210> 581

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 581
 Lys Ser Ser Gln Ser Val Phe Tyr Ser Ser Asn Gln Lys Asn Tyr Leu
 1 5 10 15
 Ala

<210> 582
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 582
 His Gln Tyr Leu Ser Ser Leu Thr
 1 5

<210> 583
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 583
 Ser Gln Ser Thr His Val Pro Pro Thr
 1 5

<210> 584
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000940_SEQLIST

<400> 584

Tyr Ser Phe Thr Gly Tyr Tyr Met His
1 5

<210> 585

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 585

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

<210> 586

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 586

Ile Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys
1 5 10

<210> 587

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 587

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

<210> 588

<211> 13

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 588

Thr Ser Leu Tyr Asp Gly Ser Tyr Leu Arg Phe Ala Tyr
1 5 10

<210> 589

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 589

Val Leu Thr Gly Gly Tyr Phe Asp Tyr
1 5

<210> 590

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 590

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

<210> 591

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 591

Gln Thr Gln Val Phe Leu Ser Leu Leu Trp Val Ser Gly Thr Cys
1 5 10 15

735022000940_SEQLIST

Gly	Asn	Ile	Met	Leu	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ala	Val	Ser	Ala
			20					25					30		
Gly	Glu	Lys	Val	Thr	Leu	Ser	Cys								
		35					40								

<210> 592
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 593
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 594
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

735022000940_SEQLIST

<210> 595
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 595
 Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Thr Ile Asn Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys
 20 25 30

<210> 596
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 596
 Gly Val Gln Ser Glu Val Lys Phe Glu Glu Ser Gly Gly Gly Leu Val
 1 5 10 15
 Gln Pro Gly Gly Ser Met Lys Leu Ser Cys Thr Ala Ser Gly
 20 25 30

<210> 597
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 597
 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Ile Ser Cys Lys Thr Ser Gly
 20 25

<210> 598
 <211> 26

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 598

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

<210> 599

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 599

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

<210> 600

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 600

Gln	Lys	Phe	Lys	Gly	Lys	Ala	Thr	Leu	Thr	Val	Asp	Arg	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> 601

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 601

Gln	Lys	Phe	Lys	Gly	Lys	Ala	Ile	Leu	Thr	Val	Asp	Lys	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> 602
 <211> 129
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 602

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

<210> 603
 <211> 112
 <212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 603

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

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<210> 604

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 604

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

```

<210> 605

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 605

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

<210> 606
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 606

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

735022000940_SEQLIST

<210> 607
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 607

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

<210> 608
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 608

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

735022000940_SEQLIST

100

105

110

<210> 609

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 609

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

<210> 610

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 610

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

735022000940_SEQLIST

				85					90					95			
Tyr	Leu	Ser	Ser	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys		
			100					105					110				

<210> 611

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 611

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

<210> 612

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 612

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

735022000940_SEQLIST

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

<210> 613

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 613

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

Lys

<210> 614

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 614

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

735022000940_SEQLIST

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

Lys

<210> 615

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 615

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

Lys

<210> 616

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 616

```

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

```

<210> 617

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 617

```

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

```

<210> 618

<211> 113

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 618

```

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

```

<210> 619

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 619

```

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

```

735022000940_SEQLIST

Lys

<210> 620

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 620

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

Lys

<210> 621

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 621

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

735022000940_SEQLIST

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

<210> 622
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 622
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Ser Asn Gln Lys Asn Cys Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45
Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
50 55 60
Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110
Lys

<210> 623
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 623
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

735022000940_SEQLIST

```

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

```

<210> 624
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

```

<400> 624
Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
  1          5          10          15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
  20          25          30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
  35          40          45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
  50          55          60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
  65          70          75          80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
  85          90          95
Thr His Val Pro Pro Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
  100        105        110

```

<210> 625
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000940_SEQLIST

<400> 625

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

<210> 626

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 626

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

<210> 627

<211> 112

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 627

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

<210> 628

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 628

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

<210> 629

<211> 112

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 629

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

<210> 630

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 630

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

<210> 631

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 631

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

<210> 632
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 632

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

735022000940_SEQLIST

<210> 633
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 633
 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 Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Ile Pro
 50 55 60
 Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr His Val Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 634
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 634
 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 Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Ile Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Ser Gln Ser
 85 90 95
 Thr His Val Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

735022000940_SEQLIST

100

105

110

<210> 635

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 635

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

<210> 636

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 636

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

735022000940_SEQLIST

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	Val	Gly	His	Lys	Ile	Asn	Asn	Tyr	Pro	Phe	Ala	His	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 637
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 637															
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	Asn	Phe	Asn	Thr	Tyr
		20						25					30		
Ala	Met	Lys	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Ala	Arg	Ile	Arg	Ser	Asn	Ser	Asn	Asp	Tyr	Ala	Thr	Asn	Tyr	Ser	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	Val	Gly	His	Lys	Ile	Asn	Asn	Tyr	Pro	Phe	Ala	His	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 638
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 638															
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	Asn	Phe	Asn	Thr	Tyr

735022000940_SEQLIST

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

<210> 639

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 639

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

<210> 640

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

$\langle 400 \rangle$ 640

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

$\langle 210 \rangle$ 641

$\langle 211 \rangle$ 121

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 641

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

735022000940_SEQLIST

<210> 642
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 642
 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 Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Lys Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Asn Ser Asn Asp Tyr Ala Thr Asn Tyr Ser 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 Val Gly His Lys Ile Asn Asn Tyr Pro Phe Ala His Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 643
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 643
 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 Asn Phe Asn Thr Tyr
 20 25 30
 Ala Met Lys Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Ala Arg Ile Arg Ser Asn Ser Asn Asp Tyr Ala Thr Asn Tyr Ser 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

735022000940_SEQLIST

Tyr Cys Val Gly His Lys Ile Asn Asn Tyr Pro Phe Ala His Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 644

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 644

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

<210> 645

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 645

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

735022000940_SEQLIST

Ala	Arg	Ile	Arg	Ser	Asn	Ser	Asn	Asp	Tyr	Ala	Thr	Asn	Tyr	Ser	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	Val	Gly	His	Lys	Ile	Asn	Asn	Tyr	Pro	Phe	Ala	His	Trp	Gly
	100						105					110			
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
	115						120								

<210> 646

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 646

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

<210> 647

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 647

735022000940_SEQLIST

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

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<210> 648

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 648

```

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

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<210> 649

<211> 122

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 649

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

<210> 650

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 650

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

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115

120

<210> 651
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 651
 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 Asp Ala
 20 25 30
 Trp Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asn Lys Ile Asn Asn His Ala Thr Tyr Tyr Ala 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 Ser Leu Tyr Asp Gly Ser Tyr Leu Arg Phe Ala Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 652
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 652
 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 Asp Ala
 20 25 30
 Trp Met Asp Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
 35 40 45
 Ala Glu Ile Arg Asn Lys Ile Asn Asn His Ala Thr Tyr Tyr Ala Gln
 50 55 60
 Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr

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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	Ser	Leu	Tyr	Asp	Gly	Ser	Tyr	Leu	Arg	Phe	Ala	Tyr	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 653

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 653

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

<210> 654

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 654

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	Asp	Ala

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

<213> Artificial Sequence

<223> Synthetic Construct

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

<213> Artificial Sequence

 $\langle 220 \rangle$

735022000940_SEQLIST

<223> Synthetic Construct

<400> 656

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

<210> 657

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 657

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

735022000940_SEQLIST

<210> 658
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 658
 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 Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys 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 Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 659
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 659
 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 Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys 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

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Ala Arg Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 660

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 660

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

<210> 661

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 661

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

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

<210> 662

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 662

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

<210> 663

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 663

735022000940_SEQLIST

```

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

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<210> 664

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 664

```

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

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<210> 665

<211> 119

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

<400> 665

Gln 1	Val	Gln	Leu	Gln 5	Glu	Ser	Gly	Pro	Gly 10	Leu	Val	Lys	Pro	Ser	Glu
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Tyr	Thr	Phe	Thr	Glu	Tyr
Thr	Met	His	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
Gly	Gly	Ile	Asn	Pro	Asn	Asn	Gly	Gly	Thr	Ser	Tyr	Lys	Pro	Ser	Leu
Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser
Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
Ala	Arg	Gly	Gly	Ser	His	Tyr	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly
Thr	Leu	Val	Thr	Val	Ser	Ser									

$\langle 210 \rangle$ 666

<211> 119

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

$\langle 400 \rangle$ 666

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

115

<210> 667
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 667
 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 Glu Tyr
 20 25 30
 Thr Met His Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Lys 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 Gly Gly Ser His Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 668
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 668
 Gln Val Gln Leu Gln Gln Ser Gly Pro Asp 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 His Gly Lys Ser Leu Glu Trp Ile
 35 40 45
 Gly Arg Val Asn Pro Asn Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe
 50 55 60
 Lys Gly Lys Ala Ile Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr

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

<210> 669
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 669															
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	Arg	Val	Asn	Pro	Asn	Asn	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		
Val	Leu	Thr	Gly	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
			100					105					110		
Thr	Val	Ser	Ser												
			115												

<210> 670
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 670															
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

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```

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

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<210> 671

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 671

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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
  1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly 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 Arg Val Asn Pro Asn Asn 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
Val Leu Thr Gly Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
      100      105      110
Thr Val Ser Ser
      115

```

<210> 672

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 672

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

<210> 673

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 673

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

735022000940_SEQLIST

<210> 674
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 674
 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 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 Arg Val Asn Pro Asn Asn Gly Gly Thr Ser 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
 Val Leu Thr Gly Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 675
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 675
 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 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 Arg Val Asn Pro Asn Asn Gly Gly Thr Ser 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

735022000940_SEQLIST

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

<210> 676
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 676
 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 Ser Phe Thr Gly Tyr
 20 25 30
 Tyr Met His Trp Ile Arg Gln Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Val Asn Pro Asn Asn Gly Gly Thr Ser 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
 Val Leu Thr Gly Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 677
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 677
 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 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

735022000940_SEQLIST

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

<210> 678

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 678

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

<210> 679

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 679

735022000940_SEQLIST

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

<210> 680

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 680

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

<210> 681

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 681

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

<210> 682

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 682

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

<210> 683

<211> 112

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 683

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

<210> 684

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 684

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

<210> 685

<211> 112

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 685

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

<210> 686

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 686

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

<210> 687

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 687

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

<210> 688
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 688

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

735022000940_SEQLIST

<210> 689
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 689
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Lys Ser Ser Gln Ser Val Phe Tyr Ser
 20 25 30
 Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys His Gln
 85 90 95
 Tyr Leu Ser Ser Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 690
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 690
 Ser Gln Asp Val Ser Thr Thr Val Ala
 1 5

<210> 691
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 691

735022000940_SEQLIST

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

<210> 692

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 692

Ser Gln Gly Val Ser Thr Ala Val Ala
1 5

<210> 693

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 693

Ser Gln Asp Val Arg Thr Ala Val Ala
1 5

<210> 694

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 694

Ser Glu Asn Val Val Thr Tyr Val Ser
1 5

<210> 695

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 695

Ser Ala Ser Tyr Arg Tyr Thr

1

5

<210> 696

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 696

Trp Ala Ser Thr Arg His Thr

1

5

<210> 697

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 697

Gly Ala Ser Asn Arg Tyr Thr

1

5

<210> 698

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 698

Gln Gln His Tyr Ser Thr Pro Pro Thr

1

5

<210> 699

735022000940_SEQLIST

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 699

Phe Gln Gly Ser His Val Pro Phe Thr
1 5

<210> 700

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 700

His Gln His Tyr Ser Thr Tyr Thr
1 5

<210> 701

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 701

Gln Gln His Tyr Gly Thr Pro Pro Trp Thr
1 5 10

<210> 702

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 702

Gly Gln Gly Tyr Ser Tyr Pro Tyr Thr

1 5

<210> 703
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 703
Ser Arg Phe Thr Phe Ser Ser Tyr Ala Met Ser
1 5 10

<210> 704
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 704
Ser Ala Phe Ser Leu Thr Asn Tyr Ala Val His
1 5 10

<210> 705
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 705
Ser Arg Phe Thr Phe Ser Ser Tyr Ala Val Ser
1 5 10

<210> 706
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 706

Val	Ala	Ala	Ile	Ser	Gly	Gly	Gly	Arg	Tyr	Thr	Tyr	Tyr	Pro
1				5					10				

<210> 707

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 707

Leu	Gly	Val	Ile	Trp	Ser	Gly	Gly	Ser	Thr	Ala	Phe	Asn
1				5					10			

<210> 708

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 708

Val	Ala	Thr	Ile	Ser	Gly	Gly	Gly	Arg	Tyr	Thr	Tyr	Tyr	Pro
1				5					10				

<210> 709

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 709

Ala	Arg	His	Tyr	Asp	Gly	Tyr	Leu	Asp	Tyr
1				5					10

<210> 710

<211> 13

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 710

Ala	Thr	His	Tyr	Tyr	Arg	Ser	Thr	Tyr	Ala	Phe	Ser	Tyr
1				5					10			

<210> 711

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 711

Asp	Ile	Val	Met	Thr	Gln	Ser	His	Lys	Phe	Met	Ser	Thr	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Ser	Ile	Thr	Cys	Lys	Ala							
			20					25							

<210> 712

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 712

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

<210> 713

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 713

Asp	Ile	Val	Met	Thr	Gln	Ser	His	Lys	Phe	Met	Ser	Thr	Ser	Ile	Gly
1				5					10					15	
Ala	Arg	Val	Ser	Ile	Thr	Cys	Lys	Ala							
			20					25							

<210> 714

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 714

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

<210> 715

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 715

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

<210> 716

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 716

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

735022000940_SEQLIST

1	5	10	15
Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Leu Tyr Tyr Cys			
20	25	30	

<210> 717

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 717

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

<210> 718

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 718

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

<210> 719

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 719

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

735022000940_SEQLIST

<210> 720
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 720
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
 1 5 10 15
 Ser Leu Ser Ile Ile Cys Thr Val
 20

<210> 721
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 721
 Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp
 1 5 10

<210> 722
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 722
 Asp Ser Met Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
 1 5 10 15
 Phe Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met
 20 25 30
 Tyr Tyr Cys
 35

<210> 723

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 723

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

<210> 724
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 724

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

<210> 725
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000940_SEQLIST

<400> 725

```

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

```

<210> 726

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 726

```

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

```

<210> 727

<211> 108

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 727

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

<210> 728

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 728

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

<210> 729

<211> 108

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 729

```

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

```

<210> 730

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 730

```

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

```

<210> 731

735022000940_SEQLIST

<211> 117

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

$\langle 400 \rangle$ 731

[illegible]

$\langle 210 \rangle$ 732

<211> 119

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

$\langle 400 \rangle$ 732

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

735022000940_SEQLIST

100
 Thr Leu Val Thr Val Ser Ala
 115

<210> 733
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 733
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Glu Ala Ser Arg Phe Thr Phe Ser Ser Tyr
 20 25 30
 Ala Val Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
 35 40 45
 Ala Thr Ile Ser Gly Gly Gly Arg Tyr Thr Tyr Tyr Pro Asp Ser Met
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Phe Leu Tyr
 65 70 75 80
 Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Tyr Asp Gly Tyr Leu Asp Tyr Trp Gly Gln Gly Thr Thr
 100 105 110
 Leu Thr Val Ser Ser
 115

<210> 734
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 734
 Ser Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu His
 1 5 10

<210> 735
 <211> 14
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 735

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

<210> 736

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 736

Ser Glu Ser Val Asp Tyr His Gly Thr Ser Leu Met Gln
 1 5 10

<210> 737

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = Glutamic acid or Glutamine

<400> 737

Ser Glu Asn Ile Xaa Tyr Ser Leu Ala
 1 5

<210> 738

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 738

Arg Ala Ser Gln Ser Ile Gly Thr Ser Ile His
1 5 10

<210> 739

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 739

Lys Val Ser Asn Arg Val Ser
1 5

<210> 740

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 740

Lys Val Ser Asp Arg Phe Ser
1 5

<210> 741

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 741

Ala Ala Ser Asn Val Glu Ser
1 5

<210> 742

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 742

Asn Ala Asn Ser Leu Glu Asp
1 5

<210> 743

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 743

Phe Ala Ser Glu Ser Ile Ser
1 5

<210> 744

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 744

Gln Gln Asn Arg Lys Ile Leu Trp Thr
1 5

<210> 745

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 745

Lys Gln Ala Tyr Asp Val Pro Trp Thr
1 5

735022000940_SEQLIST

<210> 746
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 746
 Gln Gln Thr Asn Thr Trp Pro Ile Thr
 1 5

<210> 747
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 747
 Ser Gly Tyr Thr Phe Thr Asp Phe Tyr Met Asn
 1 5 10

<210> 748
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 748
 Ser Gly Tyr Thr Phe Thr Ala Tyr Trp Met His
 1 5 10

<210> 749
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000940_SEQLIST

<400> 749

Ser Gly Phe Asn Ile Lys Asn Thr Tyr Ile His
1 5 10

<210> 750

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 750

Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Ile His
1 5 10

<210> 751

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 751

Ser Gly Tyr Thr Phe Thr Ser Ala Thr Met His
1 5 10

<210> 752

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 752

Tyr Ser Phe Thr Asp Tyr Asn Ile His
1 5

<210> 753

<211> 9

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 753

Phe Thr Leu Ser Asn Tyr Trp Met Asn
1 5

<210> 754

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 754

Tyr Thr Phe Thr Asp Tyr Asn Ile His
1 5

<210> 755

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 755

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

<210> 756

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 756

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

735022000940_SEQLIST

<210> 757

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 757

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

<210> 758

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 758

Ile	Gly	Arg	Ile	His	Pro	Ser	Asp	Ser	Asp	Ile	Asn	Tyr	Asn
1				5					10				

<210> 759

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 759

Ile	Gly	Tyr	Ile	Asn	Pro	Asn	Ser	Gly	Tyr	Ser	Lys	Tyr	Asn
1				5					10				

<210> 760

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 760

735022000940_SEQLIST

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

<210> 761

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 761

Val Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala
 1 5 10 15

<210> 762

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 762

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

<210> 763

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 763

Ala Arg Glu Pro Tyr Ser Tyr Gly Ser Ser Pro Trp Tyr Phe Leu Val
 1 5 10 15

<210> 764

<211> 13

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 764

Ala Thr Tyr Ser Asn Tyr Val Thr Gly Ala Met Asp Ser
1 5 10

<210> 765

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 765

Val Ser Pro Gly Met Asp Tyr
1 5

<210> 766

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 766

Val Lys Thr Gly Thr Ser Phe Ala Ser
1 5

<210> 767

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 767

Ala Arg Trp Gly Ile Asp Gly Asn Tyr Gly Gly Gly Phe Phe Asp Val
1 5 10 15

<210> 768

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 768
 Thr Arg Gly Phe Ser Asn Leu Gly Ala Met Asp Tyr
 1 5 10

<210> 769
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 769
 Thr Gly Ala Gly Gly Asn His Glu Asn Tyr
 1 5 10

<210> 770
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 770
 Ala Thr Thr Tyr Val Ser Phe Ser Tyr
 1 5

<210> 771
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT

735022000940_SEQLIST

<222> 1, 4

<223> Xaa = Glutamic acid or Glutamine

<400> 771

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

<210> 772

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 772

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

<210> 773

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 773

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

<210> 774

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 774

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

<210> 775

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 14

<223> Xaa = Glutamic acid or Glutamine

<400> 775

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

<210> 776

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 776

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

<210> 777

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 777

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

<210> 778

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 778

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

<210> 779

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 779

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

<210> 780

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 780

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

<210> 781

<211> 32

735022000940_SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 781

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

<210> 782

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 782

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

<210> 783

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 783

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

<210> 784

<211> 32

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 784

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

<210> 785

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 4

<223> Xaa = Glutamic acid or Glutamine

<400> 785

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

<210> 786

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 786

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

<210> 787

<211> 24

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 787

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

<210> 788

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 788

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

<210> 789

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1, 2, 3, 4, 5

<223> Xaa = Any Amino Acid

<400> 789

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

<210> 790

735022000940_SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 790

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

<210> 791
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 791

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

<210> 792
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 792

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

<210> 793
 <211> 12
 <212> PRT
 <213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 793

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

<210> 794

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 794

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

<210> 795

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 795

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

<210> 796

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 796

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

735022000940_SEQLIST

<210> 797

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 797

Trp Val Ile Gln Ser His Gly Glu Ser Leu Glu Trp
1 5 10

<210> 798

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 27

<223> Xaa = Glutamic acid or Glutamine

<400> 798

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

<210> 799

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 799

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

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Tyr Tyr Cys
35

<210> 800
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 800
Pro Lys Phe Gln Ala Thr Ala Thr Ile Thr Val Ala Thr Ser Ser Asn
1 5 10 15
Ser Ala Tyr Leu Gln Leu Ser Ser Leu Ala Ser Glu Asp Thr Ala Ile
20 25 30
Tyr Tyr Cys
35

<210> 801
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 801
Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
1 5 10 15
Thr Ala Tyr Met Gln Ile Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala
20 25 30
Val Tyr Tyr Cys
35

<210> 802
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 802
Gln Lys Phe Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser

735022000940_SEQLIST

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

<210> 803
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 803
 Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asn Lys 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> 804
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 804
 Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser
 1 5 10 15
 Ser Val Tyr Leu Gln Met Asn Asn Leu Arg Ala Val Asp Thr Gly Ile
 20 25 30
 Tyr Tyr Cys
 35

<210> 805
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

735022000940_SEQLIST

<400> 805

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

<210> 806

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 806

Arg Gly Thr Gly Thr Thr Val Thr Val
 1 5

<210> 807

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 807

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

<210> 808

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 808

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

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<210> 809
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1, 4
 <223> Xaa = Glutamic acid or Glutamine

<400> 809
 Xaa Val Val Xaa Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1 5 10 15
 Asp Gln Ala Ser Phe Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu His Trp Phe Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Lys Leu Leu Ile Phe Lys Val Ser Asn Arg Val Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
 85 90 95
 Thr His Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 100 105 110

<210> 810
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 810
 Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly
 1 5 10 15
 Glu Arg Val Thr Leu Thr Cys Lys Ala Ser Glu Asn Val Val Thr Tyr
 20 25 30
 Val Ser Trp Tyr Gln Gln Lys Pro Glu Gln Ser Pro Lys Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60

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

<210> 811

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 811

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

<210> 812

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 812

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

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```

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

```

<210> 813
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

```

<400> 813
Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
1          5          10          15
Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Glu Ser Val Asp Tyr His
          20          25          30
Gly Thr Ser Leu Met Gln Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
          35          40          45
Lys Leu Leu Ile Tyr Ala Ala Ser Asn Val Glu Ser Gly Val Pro Ala
          50          55          60
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Ser Leu Asn Ile His
65          70          75          80
Pro Val Glu Glu Asp Asp Ile Ala Met Tyr Phe Cys Gln Gln Asn Arg
          85          90          95
Lys Ile Leu Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
          100          105          110

```

<210> 814
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 14, 30
 <223> Xaa = Glutamic acid or Glutamine

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<400> 814

```

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

```

<210> 815

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 815

```

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

```

<210> 816

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 816

```

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

```

<210> 817

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 4, 88

<223> Xaa = Glutamic acid or Glutamine

<400> 817

```

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

```


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115

120

<210> 818
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 818

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

<210> 819
 <211> 114
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 819

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

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

<210> 820
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 820

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

<210> 821
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 821

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	Ser	Asn	Val	Asn	Tyr	Met

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```

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

```

<210> 822

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1, 2, 3, 4, 5

<223> Xaa = Any Amino Acid

<400> 822

```

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

```

<210> 823

<211> 119

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 823

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

<210> 824

<211> 119

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 824

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

115

<210> 825
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 825
 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Gln Met Ser Cys Glu Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Asn Ile His Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Asn Pro Asn Asn Gly Gly Thr Thr Tyr Asn Gln Lys Phe
 50 55 60
 Lys Gly Lys Ala Thr Leu Thr Val Asn Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Ile Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr His Cys
 85 90 95
 Ala Thr Thr Tyr Val Ser Phe Ser Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ala
 115

<210> 826
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 2, 6, 9
 <223> Xaa = Any Amino Acid

<400> 826
 Arg Xaa Ser Glu Asn Xaa Tyr Ser Xaa Leu Ala
 1 5 10

735022000940_SEQLIST

<210> 827
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5, 6, 7, 12, 16
 <223> Xaa = Any Amino Acid

<400> 827
 Arg Ser Ser Gln Xaa Xaa Xaa His Ser Asn Gly Xaa Thr Tyr Leu Xaa
 1 5 10 15

<210> 828
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 6, 7, 8, 10, 11, 14, 15, 17
 <223> Xaa = Any Amino Acid

<400> 828
 Lys Ser Ser Gln Ser Xaa Xaa Xaa Ser Xaa Xaa Gln Lys Xaa Xaa Leu
 1 5 10 15
 Xaa

<210> 829
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT

735022000940_SEQLIST

<222> 2

<223> Xaa = T or S

<220>

<221> VARIANT

<222> 3

<223> Xaa = F or V

<220>

<221> VARIANT

<222> 4

<223> Xaa = T or S

<220>

<221> VARIANT

<222> 7, 8

<223> Xaa = Any Amino Acid

<400> 829

Tyr Xaa Xaa Xaa Xaa Tyr Xaa Xaa His
1 5

<210> 830

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5, 7, 8

<223> Xaa = Any Amino Acid

<400> 830

Tyr Thr Phe Thr Xaa Tyr Xaa Xaa His
1 5

<210> 831

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<220>
 <221> VARIANT
 <222> 9
 <223> Xaa = D or G

<400> 831
 Phe Thr Phe Ser Asp Ala Trp Met Xaa
 1 5

<210> 832
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 2
 <223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = F or L

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = N or S

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = T or N

<220>
 <221> VARIANT
 <222> 7
 <223> Xaa = A, S, or W

<220>
 <221> VARIANT
 <222> 9
 <223> Xaa = N, K, or T

735022000940_SEQLIST

<400> 832

Phe Xaa Xaa Xaa Xaa Tyr Xaa Met Xaa

1

5

<210> 833

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 2

<223> Xaa = Any Amino Acid

<400> 833

Phe Xaa Phe Asn Thr Tyr Ala Met Asn

1

5

<210> 834

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 2

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 4

<223> Xaa = S or T

<220>

<221> VARIANT

<222> 5

<223> Xaa = N, S, or T

<220>

735022000940_SEQLIST

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

<220>
 <221> VARIANT
 <222> 8
 <223> Xaa = I or M

<220>
 <221> VARIANT
 <222> 9
 <223> Xaa = Any Amino Acid

<400> 834
 Tyr Xaa Phe Xaa Xaa Xaa Trp Xaa Xaa
 1 5

<210> 835
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 2, 6, 9
 <223> Xaa = Any Amino Acid

<400> 835
 Tyr Xaa Phe Ser Asn Xaa Trp Ile Xaa
 1 5

<210> 836
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3, 4, 5

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 7

<223> Xaa = N or E

<220>

<221> VARIANT

<222> 8

<223> Xaa = N, S, or T

<220>

<221> VARIANT

<222> 9

<223> Xaa = G or D

<220>

<221> VARIANT

<222> 10

<223> Xaa = G, D, or N

<220>

<221> VARIANT

<222> 11

<223> Xaa = T, S, or N

<220>

<221> VARIANT

<222> 12

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 14

<223> Xaa = N, S, K, or I

<400> 836

Ile Gly Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Tyr Xaa

1

5

10

<210> 837

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3, 4, 5, 12

<223> Xaa = Any Amino Acid

<400> 837

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

<210> 838

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 6

<223> Xaa = N or D

<220>

<221> VARIANT

<222> 8

<223> Xaa = V or I

<220>

<221> VARIANT

<222> 9

<223> Xaa = N or K

<400> 838

Val	Ala	Glu	Ile	Arg	Xaa	Lys	Xaa	Xaa	Asn	His	Ala	Thr	Tyr	Tyr	Ala
1				5					10					15	

<210> 839

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<220>
<221> VARIANT
<222> 1
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 2
<223> Xaa = A or G

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 5
<223> Xaa = R or K

<220>
<221> VARIANT
<222> 6
<223> Xaa = S, T, R, or L

<220>
<221> VARIANT
<222> 7
<223> Xaa = K or N

<220>
<221> VARIANT
<222> 8
<223> Xaa = S, E, or Q

<220>
<221> VARIANT
<222> 9
<223> Xaa = N, S, or D

<220>
<221> VARIANT
<222> 10
<223> Xaa = N or D

<220>
<221> VARIANT
<222> 11

735022000940_SEQLIST

<223> Xaa = Y or F

<220>

<221> VARIANT

<222> 14

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 16

<223> Xaa = A or S

<400> 839

Xaa	Xaa	Xaa	Ile	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ala	Thr	Xaa	Tyr	Xaa
1				5				10						15	

<210> 840

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1, 3, 14

<223> Xaa = Any Amino Acid

<400> 840

Xaa	Ala	Xaa	Ile	Arg	Ser	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	Xaa	Tyr	Ala
1				5				10						15	

<210> 841

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = Any Amino Acid

735022000940_SEQLIST

<220>

<221> VARIANT

<222> 5

<223> Xaa = Y or D

<220>

<221> VARIANT

<222> 7

<223> Xaa = G or N

<220>

<221> VARIANT

<222> 8

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 9

<223> Xaa = G or D

<220>

<221> VARIANT

<222> 10

<223> Xaa = N or D

<220>

<221> VARIANT

<222> 11

<223> Xaa = T, R, or S

<220>

<221> VARIANT

<222> 12

<223> Xaa = N or K

<220>

<221> VARIANT

<222> 13

<223> Xaa = Y or F

<400> 841

Ile Gly Xaa Ile Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn

1

5

10

<210> 842

<211> 14

<212> PRT

735022000940_SEQLIST

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3, 8

<223> Xaa = Any Amino Acid

<400> 842

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

<210> 843

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 843

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

<210> 844

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 844

```

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

```

<210> 845

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 845

```

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

```

<210> 846

<211> 123

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Synthetic Construct

<400> 846

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

<210> 847

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 847

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

735022000940_SEQLIST

<210> 848
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 848
 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Lys Ile Ser Arg Val Glu Ala Asp Asp Leu Gly Val Tyr Phe Cys
 20 25 30

<210> 849
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 849
 Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Asn Gly Lys Thr Phe Leu Ser Trp Leu Leu Gln Arg Pro Gly Gln Ser
 35 40 45
 Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ala Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Leu Glu Ala Asp Asp Leu Gly Ile Tyr Tyr Cys Met Gln Gly
 85 90 95
 Thr His Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 100 105 110

<210> 850
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 850

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

<210> 851

<211> 126

<212> PRT

<213> Homo sapiens

<400> 851

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

<210> 852

<211> 132

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<220>

<223> Consensus Sequence

<220>

<221> VARIANT

<222> 1, 2, 5, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24,
26, 31, 33, 35, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47,
49, 52, 53, 54, 55, 56, 57, 58, 59, 61, 63, 65, 66, 67,
68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 82,
83

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 85, 88, 89, 90, 92, 93, 95, 97, 98, 99, 101, 102, 103, 105,
107, 109, 111, 112, 113, 114, 115, 117, 118, 119, 120, 121,
122, 123, 125, 126, 127, 128, 129, 130, 131

<223> Xaa = Any Amino Acid

<400> 852

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

<210> 853

<211> 118

<212> PRT

<213> Homo sapiens

<400> 853

Glu	Leu	Arg	Ala	Ala	Thr	Lys	Leu	Thr	Gly	Glu	Lys	Tyr	Glu	Leu	Lys
1				5					10					15	

735022000940_SEQLIST

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

<210> 854

<211> 121

<212> PRT

<213> Homo sapiens

<400> 854

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

<210> 855

<211> 120

<212> PRT

<213> Mus musculus

<400> 855

Glu Val Lys Ala Ala Ile Val Leu Glu Glu Glu Arg Tyr Asp Leu Val
 1 5 10 15

735022000940_SEQLIST

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

<210> 856
 <211> 121
 <212> PRT
 <213> Mus musculus

<400> 856

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

<210> 857
 <211> 121
 <212> PRT
 <213> Mus musculus

<400> 857

Leu Cys Val Ser Gly Leu Gln Ala Gly Asp Glu Glu Glu His Lys Cys
 1 5 10 15

735022000940_SEQLIST

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

<210> 858

<211> 112

<212> PRT

<213> Homo sapiens

<400> 858

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

<210> 859

<211> 109

<212> PRT

<213> Homo sapiens

<400> 859

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

735022000940_SEQLIST

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

<210> 860

<211> 114

<212> PRT

<213> Homo sapiens

<400> 860

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

<210> 861

<211> 120

<212> PRT

<213> Homo sapiens

<400> 861

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

735022000940_SEQLIST

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

<210> 862

<211> 119

<212> PRT

<213> Homo sapiens

<400> 862

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

<210> 863

<211> 116

<212> PRT

<213> Homo sapiens

<400> 863

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

735022000940_SEQLIST

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

<210> 864

<211> 115

<212> PRT

<213> Mus musculus

<400> 864

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

<210> 865

<211> 103

<212> PRT

<213> Mus musculus

<400> 865

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

735022000940_SEQLIST

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

<210> 866
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 866
 Gln Phe Arg Val Ser Pro Leu Asp Arg Thr Trp Asn Leu Gly Glu Thr
 1 5 10 15
 Val Glu Leu Lys Cys Gln Val Leu Leu Ser Asn Pro Thr Ser Gly Cys
 20 25 30
 Ser Trp Leu Phe Gln Pro Arg Gly Ala Ala Ala Ser Pro Thr Phe Leu
 35 40 45
 Leu Tyr Leu Ser Gln Asn Lys Pro Lys Ala Ala Glu Gly Leu Asp Thr
 50 55 60
 Gln Arg Phe Ser Gly Lys Arg Leu Gly Asp Thr Phe Val Leu Thr Leu
 65 70 75 80
 Ser Asp Phe Arg Arg Glu Asn Glu Gly Tyr Tyr Phe Cys Ser Ala Leu
 85 90 95
 Ser Asn Ser Ile Met Tyr Phe Ser His Phe Val Pro Val Phe Leu Pro
 100 105 110
 Ala

<210> 867
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 867
 His Val Ala Gln Pro Ala Val Val Leu Ala Ser Ser Arg Gly Ile Ala
 1 5 10 15
 Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr Glu Val Arg
 20 25 30
 Val Thr Val Leu Arg Gln Ala Asp Ser Gln Val Thr Glu Val Cys Ala
 35 40 45
 Ala Thr Tyr Met Met Gly Asn Glu Leu Thr Phe Leu Asp Asp Ser Ile
 50 55 60

735022000940_SEQLIST

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

<210> 868
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 868
 Leu Leu Trp Met Leu Phe Val Ser Glu Leu Arg Ala Ala Thr Lys Leu
 1 5 10 15
 Thr Glu Glu Lys Tyr Glu Leu Lys Glu Gly Gln Thr Leu Asp Val Lys
 20 25 30
 Cys Asp Tyr Thr Leu Glu Lys Phe Ala Ser Ser Gln Lys Ala Trp Gln
 35 40 45
 Ile Ile Arg Asp Gly Glu Met Pro Lys Thr Leu Ala Cys Thr Glu Arg
 50 55 60
 Pro Ser Lys Asn Ser His Pro Val Gln Val Gly Arg Ile Ile Leu Glu
 65 70 75 80
 Asp Tyr His Asp His Gly Leu Leu Arg Val Arg Met Val Asn Leu Gln
 85 90 95
 Val Glu Asp Ser Gly Leu Tyr Gln Cys
 100 105

<210> 869
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consensus Sequence

<220>
 <221> VARIANT
 <222> 3, 4, 8, 11, 12, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24,
 25, 28, 30, 32, 34, 36, 37, 38, 40, 41, 42, 43, 44, 48,
 49, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64,
 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 78, 79,
 80, 81
 <223> Xaa = Any Amino Acid

735022000940_SEQLIST

<220>

<221> VARIANT

<222> 82, 84, 85, 86, 87, 89, 91, 92, 93, 94, 95, 99, 100, 102

<223> Xaa = Any Amino Acid

<400> 869

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

```

<210> 870

<211> 101

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 870

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

```

735022000940_SEQLIST

<210> 871

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 871

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

<210> 872

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 872

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

<210> 873

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 873

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

735022000940_SEQLIST

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

<210> 874

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 874

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

<210> 875

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

735022000940_SEQLIST

<400> 875

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

<210> 876

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 876

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

<210> 877

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 877

Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser
1				5					10					15

<210> 878

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 878

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

<210> 879

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 879

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		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met

735022000940_SEQLIST

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

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<210> 880

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 880

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

```

<210> 881

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 881

```

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

```

735022000940_SEQLIST

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

<210> 882

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 882

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

<210> 883

<211> 19

<212> PRT

<213> Artificial Sequence

735022000940_SEQLIST

<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> 883

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

1

5

10

15

Xaa Xaa Xaa

735022000940_SEQLIST

<210> 884
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = F or V

<220>
 <221> VARIANT
 <222> 7
 <223> Xaa = G or E

<400> 884
 Gly Asp Leu Trp Xaa Pro Xaa Glu Ser
 1 5

<210> 885
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 885
 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> 886
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 886
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg

735022000940_SEQLIST

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

<210> 887

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 887

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

Lys

<210> 888

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

735022000940_SEQLIST

<223> Synthetic Construct

<400> 888

Arg	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Asn	Tyr	Asn	Gly	Glu	Phe	Arg
1				5					10					15	
Val															