

SEQUENCE LISTING

<110> Allakos Inc.
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 TOMASEVIC, Nenad
 RASMUSSEN, Henrik

<120> METHODS AND COMPOSITIONS FOR TREATING CHRONIC URTICARIA

<130> 70171-20009.40

<140> Not Yet Assigned

<141> Concurrently Herewith

<160> 128

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 120

<212> PRT

<213> Mus musculus

<400> 1

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

<210> 2

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 2

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

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

<210> 3
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 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 3															
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	Val	Ser	Gly	Phe	Ser	Leu	Thr	Ile	Tyr
			20					25					30		
Gly	Ala	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Leu
		35				40						45			
Gly	Val	Ile	Trp	Ala	Gly	Gly	Ser	Thr	Asn	Tyr	Asn	Ser	Ala	Leu	Met
	50				55				60						
Ser	Arg	Leu	Ser	Ile	Ser	Lys	Asp	Asn	Ser	Lys	Asn	Thr	Val	Tyr	Leu
65				70				75						80	
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
			85					90						95	
Arg	Asp	Gly	Ser	Pro	Tyr	Tyr	Tyr	Ser	Met	Glu	Tyr	Trp	Gly	Gln	
			100				105					110			
Gly	Thr	Thr	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 4
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<220>
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<400> 4															
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	Val	Ser	Gly	Phe	Ser	Leu	Thr	Ile	Tyr
			20					25					30		
Gly	Ala	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35				40						45			
Ser	Val	Ile	Trp	Ala	Gly	Gly	Ser	Thr	Asn	Tyr	Asn	Ser	Ala	Leu	Met
	50				55				60						
Ser	Arg	Phe	Thr	Ile	Ser	Lys	Asp	Asn	Ser	Lys	Asn	Thr	Val	Tyr	Leu
65				70				75						80	
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
			85					90						95	
Arg	Asp	Gly	Ser	Pro	Tyr	Tyr	Tyr	Ser	Met	Glu	Tyr	Trp	Gly	Gln	
			100				105					110			
Gly	Thr	Thr	Val	Thr	Val	Ser	Ser								
		115					120								

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

<220>

<223> Synthetic Construct

<400> 5

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

<210> 6

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 6

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

<210> 7

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 7

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

<210> 10
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 <213> Artificial Sequence

<220>
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<400> 10
 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 Leu Thr Ile Tyr
 20 25 30
 Gly Ala His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Gly Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu Met
 50 55 60
 Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Asn Gln Val Ser Leu
 65 70 75 80
 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Asp Gly Ser Ser Pro Tyr Tyr Tyr Ser Met Glu Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser
 115 120

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

<220>
 <223> Synthetic Construct

<400> 11
 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 Leu Thr Ile Tyr
 20 25 30
 Gly Ala His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Gly Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu Met
 50 55 60
 Ser Arg Phe Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Val Tyr Leu
 65 70 75 80
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Asp Gly Ser Ser Pro Tyr Tyr Tyr Gly Met Glu Tyr Trp Gly Gln
 100 105 110
 Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 12
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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<400> 12
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 Leu Thr Ile Tyr
          20           25           30
Gly Ala His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35           40           45
Gly Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu Met
 50           55           60
Ser Arg Phe Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Val Tyr Leu
 65           70           75           80
Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
          85           90           95
Arg Asp Gly Ser Ser Pro Tyr Tyr Tyr Ser Met Asp Tyr Trp Gly Gln
          100          105          110
Gly Thr Thr Val Thr Val Ser Ser
          115          120

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<210> 13
<211> 120
<212> PRT
<213> Artificial Sequence

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<220>
<223> Synthetic Construct

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<400> 13
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 Leu Thr Ile Tyr
          20           25           30
Gly Ala His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35           40           45
Gly Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu Met
 50           55           60
Ser Arg Phe Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Val Tyr Leu
 65           70           75           80
Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
          85           90           95
Arg Asp Gly Ser Ser Pro Tyr Tyr Tyr Ser Met Glu Val Trp Gly Gln
          100          105          110
Gly Thr Thr Val Thr Val Ser Ser
          115          120

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<210> 14
<211> 120
<212> PRT
<213> Artificial Sequence

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<220>
<223> Synthetic Construct

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<400> 14
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 Leu Thr Ile Tyr
          20           25           30
Gly Ala His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35           40           45
Gly Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu Met
 50           55           60

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

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

<220>
 <223> Synthetic Construct

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

<210> 16
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 16															
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	Thr	Ser	Ser	Val	Ser	Tyr	Met
			20					25					30		
His	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile	Tyr
		35					40					45			
Ser	Thr	Ser	Asn	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	Arg	Ser	Ser	Tyr	Pro	Phe	Thr
				85					90					95	
Phe	Gly	Pro	Gly	Thr	Lys	Leu	Asp	Ile	Lys						
			100					105							

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

<220>

<223> Synthetic Construct

<400> 17

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

<210> 18

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 18

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

<210> 19

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 19

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

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

<220>
 <223> Synthetic Construct

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

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

<220>
 <223> Synthetic Construct

<400> 21															
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	Thr	Ser	Ser	Val	Ser	Tyr	Met
			20					25					30		
His	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile	Tyr
		35					40					45			
Ser	Thr	Ser	Asn	Leu	Ala	Ser	Gly	Ile	Pro	Ala	Arg	Phe	Ser	Gly	Ser
	50					55					60				
Gly	Ser	Gly	Thr	Asp	Tyr	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Glu	Pro	Glu
65				70					75					80	
Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Arg	Ser	Ser	Tyr	Pro	Phe	Thr
				85					90					95	
Phe	Gly	Pro	Gly	Thr	Lys	Leu	Asp	Ile	Lys						
			100					105							

<210> 22
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 22
 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 Thr Ser Ser Val Ser Tyr Met
 20 25 30
 His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45
 Ser Thr Ser Asn 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 Cys Gln Gln Arg Ser Ser Tyr Pro Phe Thr
 85 90 95
 Phe Gly Pro Gly Thr Lys Leu Asp Ile Lys
 100 105

<210> 23
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 23
 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 Thr Ser Ser Val Ser Tyr Met
 20 25 30
 His Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45
 Ser Thr Ser Asn 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 Arg Ser Ser Tyr Pro Tyr Thr
 85 90 95
 Phe Gly Pro Gly Thr Lys Leu Asp Ile Lys
 100 105

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

<220>
 <223> Synthetic Construct

<400> 24
 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 Thr Ser Ser Val Ser Tyr Met
 20 25 30
 His Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45
 Ser Thr Ser Asn Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
 65 70 75 80
 Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Ser Tyr Pro Tyr Thr
 85 90 95

Phe Gly Pro Gly Thr Lys Leu Asp Ile Lys
100 105

<210> 25
<211> 30
<212> PRT
<213> Homo sapiens

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

<210> 26
<211> 30
<212> PRT
<213> Homo sapiens

<400> 26
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 Leu Thr
20 25 30

<210> 27
<211> 30
<212> PRT
<213> Homo sapiens

<400> 27
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 Val Ser Gly Phe Ser Leu Thr
20 25 30

<210> 28
<211> 30
<212> PRT
<213> Homo sapiens

<400> 28
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser
20 25 30

<210> 29
<211> 30
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<213> Homo sapiens

<400> 29
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 Leu Thr
20 25 30

<210> 30
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<400> 30
Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu Gly
1 5 10

<210> 31
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<400> 31
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
1 5 10

<210> 32
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<400> 32
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu Gly
1 5 10

<210> 33
<211> 14
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<213> Homo sapiens

<400> 33
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu Ser
1 5 10

<210> 34
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<400> 34
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly
1 5 10

<210> 35
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<212> PRT
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<400> 35
Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 36
<211> 14
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<400> 36

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

<210> 37

<211> 32

<212> PRT

<213> Homo sapiens

<400> 37

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

<210> 38

<211> 32

<212> PRT

<213> Homo sapiens

<400> 38

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

<210> 39

<211> 32

<212> PRT

<213> Homo sapiens

<400> 39

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

<210> 40

<211> 32

<212> PRT

<213> Homo sapiens

<400> 40

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

<210> 41

<211> 32

<212> PRT

<213> Homo sapiens

<400> 41

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

<210> 42
<211> 32
<212> PRT
<213> Homo sapiens

<400> 42
Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys
1 5 10 15
Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 43
<211> 32
<212> PRT
<213> Homo sapiens

<400> 43
Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Asn Gln Val Ser Leu Lys
1 5 10 15
Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 44
<211> 11
<212> PRT
<213> Homo sapiens

<400> 44
Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
1 5 10

<210> 45
<211> 11
<212> PRT
<213> Homo sapiens

<400> 45
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 46
<211> 11
<212> PRT
<213> Homo sapiens

<400> 46
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 47
<211> 23
<212> PRT
<213> Homo sapiens

<400> 47
Gln Ile Ile Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Ser Ile Thr Cys
20

<210> 48
<211> 23
<212> PRT
<213> Homo sapiens

<400> 48
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
20

<210> 49
<211> 23
<212> PRT
<213> Homo sapiens

<400> 49
Glu Ile Ile Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys
20

<210> 50
<211> 15
<212> PRT
<213> Homo sapiens

<400> 50
Trp Phe Gln Gln Lys Pro Gly Thr Ser Pro Lys Leu Trp Ile Tyr
1 5 10 15

<210> 51
<211> 15
<212> PRT
<213> Homo sapiens

<400> 51
Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
1 5 10 15

<210> 52
<211> 15
<212> PRT
<213> Homo sapiens

<400> 52
Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Trp Ile Tyr
1 5 10 15

<210> 53
<211> 15
<212> PRT
<213> Homo sapiens

<400> 53

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

<210> 54

<211> 32

<212> PRT

<213> Homo sapiens

<400> 54

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

<210> 55

<211> 32

<212> PRT

<213> Homo sapiens

<400> 55

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

<210> 56

<211> 32

<212> PRT

<213> Homo sapiens

<400> 56

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

<210> 57

<211> 32

<212> PRT

<213> Homo sapiens

<400> 57

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

<210> 58

<211> 32

<212> PRT

<213> Homo sapiens

<400> 58

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

<210> 59
<211> 10
<212> PRT
<213> Homo sapiens

<400> 59
Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 60
<211> 10
<212> PRT
<213> Homo sapiens

<400> 60
Phe Gly Pro Gly Thr Lys Leu Asp Ile Lys
1 5 10

<210> 61
<211> 5
<212> PRT
<213> Homo sapiens

<400> 61
Ile Tyr Gly Ala His
1 5

<210> 62
<211> 16
<212> PRT
<213> Homo sapiens

<400> 62
Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu Met Ser
1 5 10 15

<210> 63
<211> 12
<212> PRT
<213> Homo sapiens

<400> 63
Asp Gly Ser Ser Pro Tyr Tyr Tyr Ser Met Glu Tyr
1 5 10

<210> 64
<211> 10
<212> PRT
<213> Homo sapiens

<400> 64
Ser Ala Thr Ser Ser Val Ser Tyr Met His
1 5 10

<210> 65
<211> 7
<212> PRT
<213> Homo sapiens

<400> 65

Ser Thr Ser Asn Leu Ala Ser

1 5

<210> 66

<211> 9

<212> PRT

<213> Homo sapiens

<400> 66

Gln Gln Arg Ser Ser Tyr Pro Phe Thr

1 5

<210> 67

<211> 12

<212> PRT

<213> Homo sapiens

<400> 67

Asp Gly Ser Ser Pro Tyr Tyr Tyr Gly Met Glu Tyr

1 5 10

<210> 68

<211> 12

<212> PRT

<213> Homo sapiens

<400> 68

Asp Gly Ser Ser Pro Tyr Tyr Tyr Ser Met Asp Tyr

1 5 10

<210> 69

<211> 12

<212> PRT

<213> Homo sapiens

<400> 69

Asp Gly Ser Ser Pro Tyr Tyr Tyr Ser Met Glu Val

1 5 10

<210> 70

<211> 12

<212> PRT

<213> Homo sapiens

<400> 70

Asp Gly Ser Ser Pro Tyr Tyr Tyr Gly Met Asp Val

1 5 10

<210> 71

<211> 9

<212> PRT

<213> Homo sapiens

<400> 71

Gln Gln Arg Ser Ser Tyr Pro Tyr Thr

1 5

<210> 72
 <211> 474
 <212> PRT
 <213> Homo sapiens

<400> 72
 Gly Tyr Leu Leu Gln Val Gln Glu Leu Val Thr Val Gln Glu Gly Leu
 1 5 10 15
 Cys Val His Val Pro Cys Ser Phe Ser Tyr Pro Gln Asp Gly Trp Thr
 20 25 30
 Asp Ser Asp Pro Val His Gly Tyr Trp Phe Arg Ala Gly Asp Arg Pro
 35 40 45
 Tyr Gln Asp Ala Pro Val Ala Thr Asn Asn Pro Asp Arg Glu Val Gln
 50 55 60
 Ala Glu Thr Gln Gly Arg Phe Gln Leu Leu Gly Asp Ile Trp Ser Asn
 65 70 75 80
 Asp Cys Ser Leu Ser Ile Arg Asp Ala Arg Lys Arg Asp Lys Gly Ser
 85 90 95
 Tyr Phe Phe Arg Leu Glu Arg Gly Ser Met Lys Trp Ser Tyr Lys Ser
 100 105 110
 Gln Leu Asn Tyr Lys Thr Lys Gln Leu Ser Val Phe Val Thr Ala Leu
 115 120 125
 Thr His Arg Pro Asp Ile Leu Ile Leu Gly Thr Leu Glu Ser Gly His
 130 135 140
 Ser Arg Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Lys Gln Gly Thr
 145 150 155 160
 Pro Pro Met Ile Ser Trp Ile Gly Ala Ser Val Ser Ser Pro Gly Pro
 165 170 175
 Thr Thr Ala Arg Ser Ser Val Leu Thr Leu Thr Pro Lys Pro Gln Asp
 180 185 190
 His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Thr Gly Val
 195 200 205
 Thr Thr Thr Ser Thr Val Arg Leu Asp Val Ser Tyr Pro Pro Trp Asn
 210 215 220
 Leu Thr Met Thr Val Phe Gln Gly Asp Ala Thr Ala Ser Thr Ala Leu
 225 230 235 240
 Gly Asn Gly Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu Arg Leu
 245 250 255
 Val Cys Ala Val Asn Ser Asn Pro Pro Ala Arg Leu Ser Trp Thr Arg
 260 265 270
 Gly Ser Leu Thr Leu Cys Pro Ser Arg Ser Ser Asn Pro Gly Leu Leu
 275 280 285
 Glu Leu Pro Arg Val His Val Arg Asp Glu Gly Glu Phe Thr Cys Arg
 290 295 300
 Ala Gln Asn Ala Gln Gly Ser Gln His Ile Ser Leu Ser Leu Ser Leu
 305 310 315 320
 Gln Asn Glu Gly Thr Gly Thr Ser Arg Pro Val Ser Gln Val Thr Leu
 325 330 335
 Ala Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Ala Phe Leu Ser Phe
 340 345 350
 Cys Ile Ile Phe Ile Ile Val Arg Ser Cys Arg Lys Lys Ser Ala Arg
 355 360 365
 Pro Ala Ala Gly Val Gly Asp Thr Gly Met Glu Asp Ala Lys Ala Ile
 370 375 380
 Arg Gly Ser Ala Ser Gln Gly Pro Leu Thr Glu Ser Trp Lys Asp Gly
 385 390 395 400
 Asn Pro Leu Lys Lys Pro Pro Pro Ala Val Ala Pro Ser Ser Gly Glu
 405 410 415
 Glu Gly Glu Leu His Tyr Ala Thr Leu Ser Phe His Lys Val Lys Pro
 420 425 430
 Gln Asp Pro Gln Gly Gln Glu Ala Thr Asp Ser Glu Tyr Ser Glu Ile
 435 440 445

Lys	Ile	His	Lys	Arg	Glu	Thr	Ala	Glu	Thr	Gln	Ala	Cys	Leu	Arg	Asn
450						455					460				
His	Asn	Pro	Ser	Ser	Lys	Glu	Val	Arg	Gly						
465					470										

<210> 73
 <211> 474
 <212> PRT
 <213> Homo sapiens

<400> 73

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

Glu	Gly	Glu	Leu	His	Tyr	Ala	Thr	Leu	Ser	Phe	His	Lys	Val	Lys	Pro
			420					425					430		
Gln	Asp	Pro	Gln	Gly	Gln	Glu	Ala	Thr	Asp	Ser	Glu	Tyr	Ser	Glu	Ile
		435					440					445			
Lys	Ile	His	Lys	Arg	Glu	Thr	Ala	Glu	Thr	Gln	Ala	Cys	Leu	Arg	Asn
	450					455					460				
His	Asn	Pro	Ser	Ser	Lys	Glu	Val	Arg	Gly						
465					470										

<210> 74
 <211> 573
 <212> PRT
 <213> Homo sapiens

<400> 74

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

Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys
385					390					395					400
Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys
				405					410					415	
Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu
			420					425					430		
Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys
		435					440					445			
Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys
450						455					460				
Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser
465					470					475					480
Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys
				485					490					495	
Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln
			500					505					510		
Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly
		515					520					525			
Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln
530						535					540				
Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn
545					550					555					560
His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys			
				565					570						

<210> 75

<211> 449

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 75

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

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

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

<220>
 <223> Synthetic Construct

<400> 76

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

Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	Phe
	195						200					205			
Asn	Arg	Gly	Glu	Cys											
	210														

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

<220>
 <223> Synthetic Construct

<400> 77

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

<210> 78
 <211> 329
 <212> PRT
 <213> Homo sapiens

<400> 78

Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys
1				5					10					15	
Ser	Thr	Ser	Gly	Gly	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	Ser	Leu	Gly	Thr	Gln	Thr
65					70					75				80	
Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
			85						90					95	
Arg	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys

Pro	Ala	Pro	100	Glu	Leu	Leu	Gly	Gly	105	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro
Lys	Pro	Lys	115	Asp	Thr	Leu	Met	Ile	120	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys
Val	Val	Val	130	Asp	Val	Ser	His	Glu	135	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp
Tyr	Val	Asp	145	Gly	Val	Glu	Val	His	150	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu
Glu	Gln	Tyr	165	Asn	Ser	Thr	Tyr	Arg	170	Val	Val	Ser	Val	Leu	Thr	Val	Leu
His	Gln	Asp	180	Trp	Leu	Asn	Gly	Lys	185	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn
Lys	Ala	Leu	195	Pro	Ala	Pro	Ile	Glu	200	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly
Gln	Pro	Arg	210	Glu	Pro	Gln	Val	Tyr	215	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu
Met	Thr	Lys	225	Asn	Gln	Val	Ser	Leu	230	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr
Pro	Ser	Asp	245	Ile	Ala	Val	Glu	Trp	250	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn
Asn	Tyr	Lys	260	Thr	Thr	Pro	Pro	Val	265	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe
Leu	Tyr	Ser	275	Lys	Leu	Thr	Val	Asp	280	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn
Val	Phe	Ser	290	Cys	Ser	Val	Met	His	295	Glu	Ala	Leu	His	Asn	His	Tyr	Thr
Gln	Lys	Ser	305	Leu	Ser	Leu	Ser	Pro	310	Gly							320
																	325

<210> 79

<211> 326

<212> PRT

<213> Homo sapiens

<400> 79

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

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

<210> 80
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 80

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

<210> 81
 <211> 444
 <212> PRT
 <213> Mus musculus

<400> 81

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

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

<210> 82
 <211> 212
 <212> PRT
 <213> Mus musculus

<400> 82

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

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

<210> 83
 <211> 212
 <212> PRT
 <213> Mus musculus

<400> 83															
Gln	Ile	Ile	Leu	Thr	Gln	Ser	Pro	Ala	Ile	Met	Ser	Ala	Ser	Pro	Gly
1			5						10					15	
Glu	Lys	Val	Ser	Ile	Thr	Cys	Ser	Ala	Thr	Ser	Ser	Val	Ser	Tyr	Met
			20					25					30		
His	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Thr	Ser	Pro	Lys	Leu	Trp	Ile	Tyr
		35					40					45			
Ser	Thr	Ser	Asn	Leu	Ala	Ser	Gly	Val	Pro	Val	Arg	Phe	Ser	Gly	Ser
	50					55					60				
Gly	Ser	Gly	Thr	Ser	Tyr	Ser	Leu	Thr	Ile	Ser	Arg	Met	Glu	Ala	Glu
65				70					75					80	
Asp	Ala	Ala	Thr	Tyr	Cys	Gln	Gln	Arg	Ser	Ser	Tyr	Pro	Phe	Thr	
			85					90					95		
Phe	Gly	Ser	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Ala	Asp	Ala	Ala	Pro	Thr
			100					105					110		
Val	Ser	Ile	Phe	Pro	Pro	Ser	Ser	Glu	Gln	Leu	Thr	Ser	Gly	Gly	Ala
		115					120					125			
Ser	Val	Val	Cys	Phe	Leu	Asn	Asn	Phe	Tyr	Pro	Lys	Asp	Ile	Asn	Val
	130					135					140				
Lys	Trp	Lys	Ile	Asp	Gly	Ser	Glu	Arg	Gln	Asn	Gly	Val	Leu	Asn	Ser
145				150					155					160	
Trp	Thr	Asp	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Met	Ser	Ser	Thr
			165						170					175	
Leu	Thr	Leu	Thr	Lys	Asp	Glu	Tyr	Glu	Arg	His	Asn	Ser	Tyr	Thr	Cys
		180						185					190		
Glu	Ala	Thr	His	Lys	Thr	Ser	Thr	Ser	Pro	Ile	Val	Lys	Ser	Phe	Asn
		195					200					205			
Arg	Asn	Glu	Cys												
	210														

<210> 84
 <211> 450
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 84															
Gln	Val	Gln	Leu	Lys	Arg	Ala	Ser	Gly	Pro	Gly	Leu	Val	Ala	Pro	Ser
1			5						10					15	
Gln	Ser	Leu	Ser	Ile	Thr	Cys	Thr	Val	Ser	Gly	Phe	Ser	Leu	Thr	Ile
		20						25					30		
Tyr	Gly	Ala	His	Trp	Val	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp
		35					40				45				
Leu	Gly	Val	Ile	Trp	Ala	Gly	Gly	Ser	Thr	Asn	Tyr	Asn	Ser	Ala	Leu
	50					55					60				

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

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

<220>
 <223> Synthetic Construct

<400> 85
 Glu Ile Ile Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
 1 5 10 15
 Glu Lys Val Ser Ile Thr Cys Ser Ala Thr Ser Ser Val Ser Tyr Met

<210> 87
 <211> 446
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 87
 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 Leu Thr Ile Tyr
 20 25 30
 Gly Ala His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Gly Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu Met
 50 55 60
 Ser Arg Phe Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Val Tyr Leu
 65 70 75 80
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Asp Gly Ser Ser Pro Tyr Tyr Tyr Ser Met Glu Tyr Trp Gly Gln
 100 105 110
 Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
 115 120 125
 Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala
 130 135 140
 Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
 145 150 155 160
 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
 165 170 175
 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
 180 185 190
 Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys
 195 200 205
 Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro
 210 215 220
 Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val
 225 230 235 240
 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 245 250 255
 Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu
 260 265 270
 Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 275 280 285
 Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser
 290 295 300
 Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 305 310 315 320
 Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile
 325 330 335
 Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 340 345 350
 Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 355 360 365
 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 370 375 380
 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 385 390 395 400
 Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg
 405 410 415
 Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu

			420					425				430	
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly
		435					440					445	

<210> 88
 <211> 5
 <212> PRT
 <213> Mus musculus

<400> 88
 Ser Tyr Ala Met Ser
 1 5

<210> 89
 <211> 5
 <212> PRT
 <213> Mus musculus

<400> 89
 Asp Tyr Tyr Met Tyr
 1 5

<210> 90
 <211> 5
 <212> PRT
 <213> Mus musculus

<400> 90
 Ser Ser Trp Met Asn
 1 5

<210> 91
 <211> 17
 <212> PRT
 <213> Mus musculus

<400> 91
 Ile Ile Ser Ser Gly Gly Ser Tyr Thr Tyr Tyr Ser Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 92
 <211> 17
 <212> PRT
 <213> Mus musculus

<400> 92
 Arg Ile Ala Pro Glu Asp Gly Asp Thr Glu Tyr Ala Pro Lys Phe Gln
 1 5 10 15
 Gly

<210> 93
 <211> 17
 <212> PRT
 <213> Mus musculus

<400> 93
Gln Ile Tyr Pro Gly Asp Asp Tyr Thr Asn Tyr Asn Gly Lys Phe Lys
1 5 10 15
Gly

<210> 94
<211> 11
<212> PRT
<213> Mus musculus

<400> 94
His Glu Thr Ala Gln Ala Ala Trp Phe Ala Tyr
1 5 10

<210> 95
<211> 12
<212> PRT
<213> Mus musculus

<400> 95
Glu Gly Asn Tyr Tyr Gly Ser Ser Ile Leu Asp Tyr
1 5 10

<210> 96
<211> 9
<212> PRT
<213> Mus musculus

<400> 96
Leu Gly Pro Tyr Gly Pro Phe Ala Asp
1 5

<210> 97
<211> 10
<212> PRT
<213> Mus musculus

<400> 97
Ser Ala Ser Ser Ser Val Ser Tyr Met His
1 5 10

<210> 98
<211> 11
<212> PRT
<213> Mus musculus

<400> 98
Arg Ala Ser Gln Asp Ile Thr Asn Tyr Leu Asn
1 5 10

<210> 99
<211> 10
<212> PRT
<213> Mus musculus

<400> 99
Ser Ala Ser Ser Ser Val Ser Tyr Met Tyr

1 5 10

<210> 100
<211> 7
<212> PRT
<213> Mus musculus

<400> 100
Asp Thr Ser Lys Leu Ala Tyr
1 5

<210> 101
<211> 7
<212> PRT
<213> Mus musculus

<400> 101
Phe Thr Ser Arg Leu His Ser
1 5

<210> 102
<211> 7
<212> PRT
<213> Mus musculus

<400> 102
Asp Thr Ser Ser Leu Ala Ser
1 5

<210> 103
<211> 9
<212> PRT
<213> Mus musculus

<400> 103
Gln Gln Trp Ser Ser Asn Pro Pro Thr
1 5

<210> 104
<211> 9
<212> PRT
<213> Mus musculus

<400> 104
Gln Gln Gly Asn Thr Leu Pro Trp Thr
1 5

<210> 105
<211> 9
<212> PRT
<213> Mus musculus

<400> 105
Gln Gln Trp Asn Ser Asp Pro Tyr Thr
1 5

<210> 106

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

<400> 106
 Glu Val Gln Val Val Glu Ser Gly Gly Asp Leu Val Lys Ser Gly Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Pro Phe Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Thr Pro Asp Lys Arg Leu Glu Trp Val
 35 40 45
 Ala Ile Ile Ser Ser Gly Gly Ser Tyr Thr Tyr Tyr Ser Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Glu Thr Ala Gln Ala Ala Trp Phe Ala Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ala
 115 120

<210> 107
 <211> 121
 <212> PRT
 <213> Mus musculus

<400> 107
 Glu Val Gln Leu Gln Gln Ser Gly 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 Asp Tyr
 20 25 30
 Tyr Met Tyr Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Arg Ile Ala Pro Glu Asp Gly Asp Thr Glu Tyr Ala Pro Lys Phe
 50 55 60
 Gln Gly Lys Ala Thr Val Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
 65 70 75 80
 Leu His Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Thr Glu Gly Asn Tyr Tyr Gly Ser Ile Leu Asp Tyr Trp Gly
 100 105 110
 Gln Gly Thr Thr Leu Thr Val Ser Ser
 115 120

<210> 108
 <211> 118
 <212> PRT
 <213> Mus musculus

<400> 108
 Gln 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 Arg 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 Gln Ile Tyr Pro Gly Asp Asp Tyr Thr Asn Tyr Asn Gly Lys Phe
 50 55 60
 Lys Gly Lys Val Thr Leu Thr Ala Asp Arg Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys

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

<210> 109
 <211> 106
 <212> PRT
 <213> Mus musculus

<400> 109

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

<210> 110
 <211> 107
 <212> PRT
 <213> Mus musculus

<400> 110

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

<210> 111
 <211> 106
 <212> PRT
 <213> Mus musculus

<400> 111

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

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

<210> 112
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 112																
Met	Glu	Gly	Asp	Arg	Gln	Tyr	Gly	Asp	Gly	Tyr	Leu	Leu	Gln	Val	Gln	
1				5					10					15		
Glu	Leu	Val	Thr	Val	Gln	Glu	Gly	Leu	Cys	Val	His	Val	Pro	Cys	Ser	
			20					25					30			
Phe	Ser	Tyr	Pro	Gln	Asp	Gly	Trp	Thr	Asp	Ser	Asp	Pro	Val	His	Gly	
		35					40					45				
Tyr	Trp	Phe	Arg	Ala	Gly	Asp	Arg	Pro	Tyr	Gln	Asp	Ala	Pro	Val	Ala	
		50				55					60					
Thr	Asn	Asn	Pro	Asp	Arg	Glu	Val	Gln	Ala	Glu	Thr	Gln	Gly	Arg	Phe	
65					70					75					80	
Gln	Leu	Leu	Gly	Asp	Ile	Trp	Ser	Asn	Asp	Cys	Ser	Leu	Ser	Ile	Arg	
			85						90					95		
Asp	Ala	Arg	Lys	Arg	Asp	Lys	Gly	Ser	Tyr	Phe	Phe	Arg	Leu	Glu	Arg	
			100					105					110			
Gly	Ser	Met	Lys	Trp	Ser	Tyr	Lys	Ser	Gln	Leu	Asn	Tyr	Lys	Thr	Lys	
		115					120					125				
Gln	Leu	Ser	Val	Phe	Val	Thr	Ala	Leu	Thr	His	Arg	Pro				
		130				135					140					

<210> 113
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 113																
Asp	Ile	Leu	Ile	Leu	Gly	Thr	Leu	Glu	Ser	Gly	His	Ser	Arg	Asn	Leu	
1				5					10					15		
Thr	Cys	Ser	Val	Pro	Trp	Ala	Cys	Lys	Gln	Gly	Thr	Pro	Pro	Met	Ile	
			20					25					30			
Ser	Trp	Ile	Gly	Ala	Ser	Val	Ser	Ser	Pro	Gly	Pro	Thr	Thr	Ala	Arg	
		35					40					45				
Ser	Ser	Val	Leu	Thr	Leu	Thr	Pro	Lys	Pro	Gln	Asp	His	Gly	Thr	Ser	
		50				55					60					
Leu	Thr	Cys	Gln	Val	Thr	Leu	Pro	Gly	Thr	Gly	Val	Thr	Thr	Thr	Ser	
65					70					75					80	
Thr	Val	Arg	Leu	Asp	Val	Ser										
				85												

<210> 114
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 114																
Tyr	Pro	Pro	Trp	Asn	Leu	Thr	Met	Thr	Val	Phe	Gln	Gly	Asp	Ala	Thr	
1				5					10					15		
Ala	Ser	Thr	Ala	Leu	Gly	Asn	Gly	Ser	Ser	Leu	Ser	Val	Leu	Glu	Gly	

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

<210> 115

<211> 373

<212> PRT

<213> Homo sapiens

<400> 115

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

			340						345					350			
Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser		
		355					360					365					
Leu	Ser	Pro	Gly	Lys													
	370																

<210> 116
 <211> 460
 <212> PRT
 <213> Homo sapiens

<400> 116

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

				405					410					415		
Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	
			420					425					430			
Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	
		435					440					445				
Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
	450					455					460					

<210> 117
 <211> 582
 <212> PRT
 <213> Homo sapiens

<400> 117

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

385					390					395					400
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly
				405					410					415	
Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn
			420					425					430		
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp
		435					440					445			
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro
	450					455					460				
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu
	465				470					475					480
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn
				485					490					495	
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
			500					505					510		
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
		515					520					525			
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
	530					535					540				
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
	545				550					555					560
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
				565				570						575	
Ser	Leu	Ser	Pro	Gly	Lys										
			580												

<210> 118

<211> 582

<212> PRT

<213> Unknown

<220>

<223> Papio spp.

<400> 118

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

Leu	Asp	Val	Ser	Tyr	Pro	Pro	Trp	Asn	Leu	Thr	Val	Thr	Val	Phe	Gln
225					230					235					240
Gly	Asp	Asp	Thr	Ala	Ser	Thr	Ala	Leu	Gly	Asn	Gly	Ser	Ser	Leu	Ser
				245					250						255
Val	Leu	Glu	Gly	Gln	Ser	Leu	Arg	Leu	Val	Cys	Ala	Val	Asp	Ser	Asn
			260					265					270		
Pro	Pro	Ala	Arg	Leu	Ser	Trp	Thr	Arg	Gly	Ser	Leu	Thr	Leu	Cys	Pro
		275					280					285			
Ser	Gln	Pro	Trp	Asn	Pro	Gly	Leu	Leu	Glu	Leu	Leu	Arg	Val	His	Val
290						295					300				
Lys	Asp	Glu	Gly	Glu	Phe	Thr	Cys	Gln	Ala	Glu	Asn	Pro	Arg	Gly	Ser
305					310					315					320
Gln	His	Ile	Ser	Leu	Ser	Leu	Ser	Leu	Gln	Asn	Glu	Gly	Thr	Gly	Thr
				325					330					335	
Ala	Arg	Pro	Val	Ser	Glu	Val	Thr	Leu	Ala	Ala	Val	Gly	Gly	Ile	Glu
			340					345					350		
Gly	Arg	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu
		355					360					365			
Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
	370					375					380				
Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp
385					390					395					400
Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly
				405					410					415	
Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn
			420					425					430		
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp
		435					440					445			
Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro
	450					455					460				
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu
465					470					475					480
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn
				485					490					495	
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
			500					505					510		
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
		515					520					525			
Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
	530					535					540				
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
545					550					555					560
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
				565					570					575	
Ser	Leu	Ser	Pro	Gly	Lys										
			580												

<210> 119

<211> 350

<212> PRT

<213> Unknown

<220>

<223> Papio spp.

<400> 119

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

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

<210> 120
 <211> 120
 <212> PRT
 <213> Homo sapiens

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

<210> 121

<211> 97
 <212> PRT
 <213> Homo sapiens

<400> 121
 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 Val Ser Ser Asn
 20 25 30
 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Val Ile Tyr Ser Gly Gly Ser Thr Tyr Tyr Ala 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 Ala
 85 90 95
 Arg

<210> 122
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 122
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Tyr
 20 25 30
 Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn 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 Ala
 85 90 95
 Arg

<210> 123
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 123
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Asn Arg Ala Thr 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 Arg Ser Asn Trp Leu Ile
 85 90 95
 Ala Phe Gly Pro Gly Thr Lys Leu Asp Ile Lys
 100 105

<210> 124
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 124
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser 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 Asp Ala Ser Asn Arg Ala Thr 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 Gln Arg Ser Asn Trp Pro
 85 90 95

<210> 125
 <211> 446
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 126

<211> 215

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 126

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

<210> 127

<211> 123
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 127
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Met Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Trp Tyr
20 25 30
Trp Leu Glu Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met
35 40 45
Gly Glu Ile Asp Pro Gly Thr Phe Thr Thr Asn Tyr Asn Glu Lys Phe
50 55 60
Lys Ala Arg Val Thr Phe 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 Phe Ser His Phe Ser Gly Ser Asn Tyr Asp Tyr Phe Asp Tyr
100 105 110
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 128
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
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<400> 128
Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Gly Thr Asn
20 25 30
Ile His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
Tyr Tyr Ala Ser Glu Ser Ile Ser 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 Gln Ser Trp Ser Trp Pro Thr
85 90 95
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105