

SEQUENCE LISTING

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 DU, Fangyong
 PAN, Zhongzong
 LIU, Guizhong

<120> ANTI-CTLA4 ANTIBODIES AND METHODS OF MAKING AND USING THE SAME

<130> 69540-20005.41

<140> Not Yet Assigned
 <141> Concurrently Herewith

<150> PCT/CN2018/075064
 <151> 2018-02-02

<160> 230

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1 5 10 15
Lys Ser Arg Val
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1 5 10 15
Phe Gln Gly Arg Val
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Val Ser Xaa Ile Ser Gly Xaa Gly Xaa Xaa Thr Tyr Tyr Ala Asp Ser
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Val Lys Gly Arg Phe
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Ala Arg Xaa Gly Xaa Gly Tyr Phe Asp Xaa

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Xaa															

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<400> 11

Arg Ala Ser Gln Xaa Xaa Xaa Ser Xaa Leu Xaa
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Arg Ala Ser Gln Xaa Val Xaa Xaa Arg Xaa Leu Ala
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 Arg Ala Ser Xaa Ser Val Asp Phe Xaa Gly Xaa Ser Phe Leu Xaa
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<400> 14
Xaa Ala Ser Xaa Xaa Xaa Xaa Gly Xaa
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 Tyr Cys Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Thr
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 Tyr Cys Gln Gln Xaa Xaa Xaa Trp Pro Pro Trp Thr
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Phe	Thr	Phe	Ser	Asp	Tyr	Ala	Ile	His	Trp	Val
1				5					10	

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Tyr	Ser	Ile	Thr	Ser	Gly	Tyr	Tyr	Trp	Ala	Trp	Ile
1				5					10		

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Phe	Thr	Phe	Ser	Asp	Tyr	Gly	Ile	His	Trp	Val
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Tyr Ser Ile Ser Ser Gly Tyr His Trp Asp Trp Ile
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Phe Thr Phe Ser Asp Tyr Trp Ile His Trp Val
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<400> 23
Tyr Ser Ile Ser Ser Gly Tyr His Trp Ser Trp Ile
1 5 10

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<400> 24
Phe Ser Leu Ser Thr Gly Gly Val Ala Val Ser Trp Ile
1 5 10

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Phe Ser Leu Ser Thr Gly Gly Val Ala Val Gly Trp Ile
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Phe Thr Phe Ser Gly Tyr Ala Ile His Trp Val
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Tyr Thr Phe Ser Gly Tyr Gly Ile His Trp Val
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Tyr Thr Phe Ser Gly Tyr Ala Ile His Trp Val
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Tyr Ser Ile Thr Ser Gly His Tyr Trp Ser Trp Ile
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<400> 30
Ile Gly Ile Ile Ser Pro Ser Ser Gly Ser Thr Asn Tyr Ala Gln Lys
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Phe Gln Gly Arg Val
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<400> 31
Val Ser Ser Ile Ser Gly Ser Gly Ser Thr Thr Tyr Tyr Ala Asp Ser
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Val Lys Gly Arg Phe
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 Ile Gly Glu Ile Tyr His Ser Gly Ser Thr Tyr Tyr Ser Pro Ser Leu
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 Lys Ser Arg Val
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 Val Ser Gly Ile Ser Gly Tyr Gly Gly Ser Thr Tyr Tyr Ala Asp Ser
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 Val Lys Gly Arg Phe
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 Ile Gly Trp Ile Ser Pro Ser Gly Gly Gly Thr Lys Tyr Ala Gln Lys
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 Phe Gln Gly Arg Val
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 Leu Ala Arg Ile Asp Trp Asp Asp Asp Lys Tyr Tyr Ser Thr Ser Leu
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 Lys Ser Arg Leu
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Val Lys Gly Arg Phe
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Phe Gln Gly Arg Val
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Phe Gln Gly Arg Val
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 Lys Ser Arg Val
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 Ala Arg Asp Gly Phe Gly Tyr Phe Asp Tyr
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 1 5 10 15
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Ala Arg Gly Ala Tyr Glu Phe Asp Tyr
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Ala Arg Ser Tyr Val Tyr Phe Asp Tyr
1 5

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Ala Arg Arg Ile Ala Thr Ala Thr Tyr Phe Asp Tyr
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Ala Arg Leu Pro Tyr Ser Ala Tyr Ala Phe Asp Tyr
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Ala Arg His Pro Phe Ala Tyr
1 5

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Ala Arg Arg Ile Asp Ala Phe Asp Ile
1 5

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Ala Arg Leu Tyr Asp Val Ala Tyr
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Ala Arg Leu Gly Tyr Gly Tyr Phe Asp Val
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Ser Ala Ser Ser Ser Val Ser Tyr Val Tyr
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Asp Ala Ser Ser Leu Glu Ser Gly Val
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Asp Ala Ser Asn Leu Glu Thr Gly Val
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Ala Ala Ser Thr Leu Gln Ser Gly Val
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<220>
<223> Synthetic Construct

<400> 82
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 Tyr
20 25 30
Ala Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile

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

<210> 83
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 83																	
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	Ile	Thr	Ser	Gly		
			20					25					30				
Tyr	Tyr	Trp	Ala	Trp	Ile	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp		
			35				40					45					
Val	Ser	Ser	Ile	Ser	Gly	Ser	Gly	Ser	Thr	Thr	Tyr	Tyr	Ala	Asp	Ser		
			50			55					60						
Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu		
65					70				75						80		
Tyr	Leu	Gln	Leu	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr		
			85						90					95			
Cys	Ala	Arg	Asp	Gly	Phe	Gly	Tyr	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr		
			100					105					110				
Leu	Val	Thr	Val	Ser	Ser												
			115														

<210> 84
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 84																	
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	Tyr		

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

<210> 85
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 86
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 87

<211> 116

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

<210> 88

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 88

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

<210> 89

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 89

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

<210> 90

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 90

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

<210> 91

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 91

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

<210> 92

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 92

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

<210> 93

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 93

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

<210> 94

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 94

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

<210> 95

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 95

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

<210> 96
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 96
 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 Ser Ala Ser Ser Ser Val Ser Tyr Val
 20 25 30
 Tyr Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
 35 40 45
 Asp Ala Ser Ser Leu Glu 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 Val Gln Gly Leu Gln Thr Pro Trp Thr
 85 90 95
 Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 97
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 97
 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 Gly Ile Gly Ser Ser
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp Gln Trp Pro Pro
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 98
 <211> 112

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 98
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 Glu Ser Val Asp Phe Phe
20 25 30
Gly Lys Ser Phe Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
35 40 45
Lys Leu Leu Ile Tyr Asp Ala Ser Asn Leu Glu Thr 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 Tyr
85 90 95
Ser Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

<210> 99
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 99
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 Ser Ser Arg
20 25 30
Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ser Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Pro Thr Pro
85 90 95
Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 100
<211> 109
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 100

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

<210> 101

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 101

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

<210> 102

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 102

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

<210> 103

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 103

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

Lys Arg

<210> 104

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 104

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

<210> 105

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 105

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

<210> 106

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 106

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

<210> 107

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 107

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

<210> 108

<211> 372

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 108

gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60

```

tcctgtgcag cttccggatt caccttctcc gactacgcta ttcactgggt gcgtcaggcc 120
ccgggtaagg gactcgagtg gatcgggtatc atctcccat ctagcggttc tactaactac 180
gcccagaagt tccagggctcg tgtgactata agtcgcgaca attcgaaaaa cacactgtac 240
ctacaactga acagcttaag agctgaggac actgccgtct attattgcgc cagagacatt 300
cactctgggt cttctgggta ctactacggg ttcgacgtct ggggtcaagg aacactagtc 360
accgtctcct cg 372

```

<210> 109

<211> 354

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 109

```

gaggttcagc tgggtggagtc tggcgggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggata ctctatcacc tctggttact actgggcctg gattcgtcag 120
gccccgggta agggcctcga gtgggtgtct tccatctctg gttccggttc tactacctac 180
tacgccgact ctgtcaaggg ccgtttcact ataagtcgcg acaattcgaa aaacacactg 240
tacctacaac tgaacagctt aagagctgag gacactgccg tctattattg cgccagagat 300
ggtttcggct acttcgacta ctgggggtcaa ggaacactag tcaccgtctc ctcg 354

```

<210> 110

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 110

```

gaggttcagc tgggtggagtc tggcgggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggatt caccttctcc gactacggta ttcactgggt gcgtcaggcc 120
ccgggtaagg gcctcgagtg gatcgggtgaa atctaccact ctggttctac ctactactct 180
ccatctctga agtctcgtgt gactataagt cgcgacaatt cgaaaaacac actgtacctt 240
caactgaaca gcttaagagc tgaggacact gccgtctatt attgcgccag agacgttgcc 300
cctggttctt ctggttacta cgacgggttc gacttctggg gtcaaggaac actagtcacc 360
gtctcctcg 369

```

<210> 111

<211> 363

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 111

```

gaggttcagc tgggtggagtc tggcgggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggata ctctatctcc tctggttacc actgggactg gattcgtcag 120
gccccgggta agggcctcga gtgggtgtct ggtatctctg gttacggtgg ttctacctac 180

```

```
tacgccgact ctgtcaaggg ccgtttcact ataagtcgcg acaattcgaa aaacacactg 240
tacctacaac tgaacagctt aagagctgag gacactgccg tctattattg cgccagacac 300
agttattacg gttccggtaa tttcgactac tgggggtcaag gaacactagt caccgtctcc 360
tcg
```

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

<220>
 <223> Synthetic Construct

```
<400> 112
gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggatt caccttctcc gactactgga ttcactgggt gcgtcaggcc 120
ccgggtaagg gcctcgagt gacggttgg atctcccat ctggcggtgg tactaagtac 180
gcccagaagt tccagggtcg tgtgactata agtcgcgaca attcgaaaaa cacactgtac 240
ctacaactga acagcttaag agctgaggac actgccgtct attattgcgc cagaggggct 300
tacgaatttg actactgggg tcaaggaaca ctagtcaccg tctcctcg 348
```

<210> 113
 <211> 348
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

```
<400> 113
gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggata ctctatctcc tctggttacc actggagctg gattcgtcac 120
gccccgggta agggcctcga gtggctggcc cggatcgact gggacgatga caagtactac 180
tctacctctc tgaagtctcg tctgactata agtcgcgaca attcgaaaaa cacactgtac 240
ctacaactga acagcttaag agctgaggac actgccgtct attattgcgc cagatcgtac 300
gtgtacttcg actactgggg tcaaggaaca ctagtcaccg tctcctcg 348
```

<210> 114
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

```
<400> 114
gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggatt ctctctgtct accggcggtg tggctgtgag ctggattcgt 120
caggccccgg gtaagggcct cgagtggatc ggtgaaatct accactctgg ttctacctac 180
tactctccat ctctgaagtc tcgtgtgact ataagtcgcg acaattcgaa aaacacactg 240
tacctacaac tgaacagctt aagagctgag gacactgccg tctattattg cgcccgtcgt 300
atgccaccg ctacttactt cgactactgg ggtcaaggaa cactagtcac cgtctcctcg 360
```

<210> 115
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 115
gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggatt ctctctgtct accggcggtg tggctgtggg ctggattcgt 120
cagggccccg gtaagggcct cgagtgggtg tctgctatct ctggttacgg ttctactacc 180
tactacgccg actctgtcaa gggccgtttc actataagtc gcgacaattc gaaaaacaca 240
ctgtacctac aactgaacag cttaagagct gaggacactg ccgtctatta ttgcgccaga 300
ttgccatact ccgcctacgc tttcgactac tggggtcaag gaacactagt caccgtctcc 360
tcg 363

<210> 116
<211> 342
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 116
gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggatt caccttctcc ggctacgcta ttcactgggt gcgtcaggcc 120
ccgggtaagg gcctcgagt gacggtatc atctcccat ctggcggtgg tactaagtac 180
gccagaagt tccagggtcg tgtgactata agtcgcgaca attcgaaaaa cacactgtac 240
ctacaactga acagcttaag agctgaggac actgccgtct attattgcgc cagacacca 300
ttcgctact ggggtcaagg aacactagtc accgtctcct cg 342

<210> 117
<211> 345
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 117
gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggata caccttctcc ggctacggta ttcactgggt gcgtcaggcc 120
ccgggtaagg gcctcgagt gacggtgaa atctaccact ctggttctac ctactactct 180
ccatctctga agtctctgt gactataagt cgcgacaatt cgaaaaacac actgtacct 240
caactgaaca gcttaagagc tgaggacact gccgtctatt attgcgccag aagaattgac 300
gccttcgaca tctgggggtca aggaacacta gtcaccgtct cctcg 345

<210> 118

<211> 345
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 118
gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggata caccttctcc ggctacgcta ttcactgggt gcgtcaggcc 120
ccgggtaagg gcctcgagtg gatcggatc atctcccat ctggcggttg tactaagtac 180
gccagaagt tccagggtcg tgtgactata agtcgcgaca attcgaaaaa cactactgtac 240
ctacaactga acagcttaag agctgaggac actgccgtct attattgcgc cagactctat 300
gacgttgccct actgggggtca aggaacacta gtcaccgtct cctcg 345

<210> 119
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 119
gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggatt caccttctcc gactacgcta ttcactgggt gcgtcaggcc 120
ccgggtaagg gcctcgagtg gatcggatc atctcccat ctggcggttc tactaagtac 180
gccagaagt tccagggtcg tgtgactata agtcgcgaca attcgaaaaa cactactgtac 240
ctacaactga acagcttaag agctgaggac actgccgtct attattgcgc cagactcggg 300
tacgggtact tcgacgtctg ggggtcaagga acactagtca ccgtctctc g 351

<210> 120
<211> 354
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 120
gaggttcagc tgggtggagtc tggcggtggc ctggtgcagc cagggggctc actccgtttg 60
tcctgtgcag cttccggata ctctatcacc tctggtcact actggagctg gattcgtcag 120
gccccgggta agggcctcga gtggatcggg gacatctccc actctggttc tacctactac 180
tctcaatctc tgaagtctcg tgtgactata agtcgcgaca attcgaaaaa cactactgtac 240
ctacaactga acagcttaag agctgaggac actgccgtct attattgcgc gcgtggtagt 300
aggaccggct acttcgacta ttgggggtcaa ggaacactag tcaccgtctc ctcg 354

<210> 121
<211> 342
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 121

```
gatatccagt tgaccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgcc gtgcctctga gtctgtggac ttcttcggta tctctttcct ggcctggtat 120
caacagaaac caggaaaagc tccgaagctt ctgatctacg acgcctctaa ccgtgccacc 180
ggtatcccat ctgccttctc tggatccggt tccgggacgg atttcactct gaccatcagc 240
agtctgcagc cggaagactt cgcaacttat tactgccagc actacacctc ttcgccacca 300
gtgtacacct tcggacaggg taccaaggtg gagatcaaac ga 342
```

<210> 122

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 122

```
gatatccagt tgaccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgct ctgcctcttc tagcgtgagc tacgtgtact ggtatcaaca gaaaccagga 120
aaagctccga agcttctgat ctacgacgc tcttctctgg aatctggtgt gccatctcgc 180
ttctctggat ccggttccgg gacggatttc actctgacca tcagcagtct gcagccggaa 240
gacttcgcaa cttattactg cgtgcagggt cttcagaccc cttggacctt cggacagggt 300
accaaggtgg agatcaaacg a 321
```

<210> 123

<211> 327

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 123

```
gatatccagt tgaccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgcc gtgcctctca gggatttggc tcttccctgg cttggtatca acagaaacca 120
ggaaaagctc cgaagcttct gatctacgac gcctctaacc gtgccaccgg tatcccatct 180
cgcttctctg gatccggttc cgggacggat ttcactctga ccatcagcag tctgcagccg 240
gaagacttcg caacttatta ctgccagcag tacgaccaat ggccaccttg gaccttcgga 300
cagggtacca aggtggagat caaacga 327
```

<210> 124

<211> 336

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 124

```

gatatccagt tgacccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgcc gtgcctctga gtctgtggac ttcttcggta agtctttcct gcactgggat 120
caacagaaac caggaaaagc tccgaagctt ctgatctacg acgcctctaa cctggaaacc 180
gggtgtgcat ctcgcttctc tggatccggg tccgggacgg atttcactct gaccatcagc 240
agtctgcagc cggaagactt cgcaacttat tactgccagc agtcctactc ctggcctccg 300
accttcggac aggttaccaa ggtggagatc aaacga 336

```

<210> 125

<211> 327

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 125

```

gatatccagt tgacccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgcc gtgcctctca gtctgtgagc agccgtttcc tggcctggta tcaacagaaa 120
ccaggaaaag ctccgaagct tctgatctac gacgcctcta accgtgccac cggtatccca 180
tctcgcttct ctggatccgg ttccgggacg gatttcactc tgaccatcag cagtctgcag 240
ccggaagact tcgcaactta ttactgccag cagtcctacc ccacccctct taccttcgga 300
cagggtacca aggtggagat caaacga 327

```

<210> 126

<211> 327

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 126

```

gatatccagt tgacccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgcc gtgcctctca gtctgtgagc ggccgtttcc tggcctggta tcaacagaaa 120
ccaggaaaag ctccgaagct tctgatctac gacgcctcta accgtgccac cggtatccca 180
tctcgcttct ctggatccgg ttccgggacg gatttcactc tgaccatcag cagtctgcag 240
ccggaagact tcgcaactta ttactgccag cagtcctcct cctggcctcc gaccttcgga 300
cagggtacca aggtggagat caaacga 327

```

<210> 127

<211> 330

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 127

```

gatatccagt tgacccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgcc gtgcctctca gaccgtgttc tctcgttacc tggcctggta tcaacagaaa 120
ccaggaaaag ctccgaagct tctgatctac gacgcctcta accgtgccac cggtatccca 180
tctcgcttct ctggatccgg ttccgggacg gatttcactc tgaccatcag cagtctgcag 240

```

ccggaagact tcgcaactta ttactgccag cagtcctact actggccacc ttggaccttc 300
 ggacagggtta ccaagggtga gatcaaacga 330

<210> 128

<211> 324

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 128

gatatccagt tgaccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
 atcacctgcc gtgcctctca ggggtgtgtct tcttacctgg cctggtatca acagaaacca 120
 ggaaaagctc cgaagcttct gatctacgcc gcctctacct tgcagtctgg tgtgccatct 180
 cgcttctctg gatccggttc cgggacggat ttcactctga ccatcagcag tctgcagccg 240
 gaagacttcg caacttacta ctgccagcac cactacggca cccactgac cttcgggtcag 300
 ggtaccaagg tggagatcaa acga 324

<210> 129

<211> 342

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 129

gatatccagt tgaccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
 atcacctgcc gtgcctctca gtctgtggac ttctacggta tctctttcct ggactggtat 120
 caacagaaac caggaaaagc tccgaagctt ctgatctacg acgcctctaa ccgtgccacc 180
 ggtatcccat ctgcgttctc tggatccggg tccgggacgg atttcactct gaccatcagc 240
 agtctgcagc cggaagactt cgcaacttat tactgccagc agtacgtctc ttcgccacca 300
 gagtacacct tcggacaggg taccaagggt gagatcaaac ga 342

<210> 130

<211> 336

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 130

gatatccagt tgaccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
 atcacctgcc gtgcctctca gtctgtggac ttcgacgggt tctctttcct gcactggtat 120
 caacagaaac caggaaaagc tccgaagctt ctgatctacg acgcctcttc tctggaatct 180
 ggtgtgccat ctgcgttctc tggatccggg tccgggacgg atttcactct gaccatcagc 240
 agtctgcagc cggaagactt cgcaacttat tactgccagc agcgtgactc ctggccttac 300
 accttcggac aggttaccaa ggtggagatc aaacga 336

<210> 131

<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 131
gatatccagt tgacccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgcc gtgcctctca gtctgtggac ttccacggta agtctttcct gcactggtat 120
caacagaaac caggaaaagc tccgaagctt ctgatctacg acgcctcttc tctggaatct 180
gggtgtgcat ctcgcttctc tggatccggg tccgggacgg atttcactct gaccatcagc 240
agtctgcagc cggaagactt cgcaacttat tactgagcgc aatccctgga agtccatttc 300
accttcggac agggtagcaa ggtggagatc aaacga 336

<210> 132
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 132
gatatccagt tgacccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgcc gtgcctctca gtctgtggac ttctacggta tctctttcct gcactggtat 120
caacagaaac caggaaaagc tccgaagctt ctgatctacg acgcctcttc tctggaatct 180
gggtgtgcat ctcgcttctc tggatccggg tccgggacgg atttcactct gaccatcagc 240
agtctgcagc cggaagactt cgcaacttat tactgcgtgc aggctcttca gttgcctctt 300
accttcggac agggtagcaa ggtggagatc aaacga 336

<210> 133
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 133
gatatccagt tgacccagtc cccgagttcc ctgtccgcct ctgtgggcga tcgggtcacc 60
atcacctgcc gtgcctctca gtctatctct tcttacctga actggtatca acagaaacca 120
ggaaaagctc cgaagcttct gatctacgac gcctctaacc tggaaaccgg tgtgccatct 180
cgcttctctg gatccgggtc cgggacggat ttactcttga ccatcagcag tctgcagccg 240
gaagacttcg caacttacta ctgccagcac cactacggca cccactgac cttcggtcag 300
ggtaccaagg tggagatcaa acga 324

<210> 134
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Present in repeats of at least two and up to ten

<220>
<221> VARIANT
<222> 3
<223> Present in repeats of at least three and up to ten

<220>
<221> VARIANT
<222> 1, 3
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<220>
<221> VARIANT
<222> 5
<223> Present in repeats of at least one and up to ten

<220>
<221> VARIANT
<222> 5
<223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val, His, or Pro

<400> 134
Xaa Cys Xaa Cys Xaa
1 5

<210> 135
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Present in repeats of at least two and up to ten

<220>
<221> VARIANT
<222> 3

<223> Present in repeats of at least three and up to ten

<220>

<221> VARIANT

<222> 5

<223> Present in repeats of at least one and up to ten

<220>

<221> VARIANT

<222> 1, 3, 5

<223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val,
His, or Pro

<400> 135

Xaa Cys Xaa Cys Xaa

1

5

<210> 136

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> misc_feature

<222> 1, 2, 3

<223> Present in repeats of at least two and up to ten

<220>

<221> misc_feature

<222> 7, 8, 9

<223> Present in repeats of at least three and up to ten

<220>

<221> misc_feature

<222> 13, 14, 15

<223> Present in repeats of at least one and up to ten

<220>

<221> misc_feature

<222> 1, 2, 7, 8, 13

<223> n = A,T,C or G

<220>

<221> misc_feature

<222> 3, 9

<223> n = T or G

<220>

<221> misc_feature
<222> 6, 12
<223> n = T or C

<220>
<221> misc_feature
<222> 14
<223> n = A,T, or C

<400> 136
nnntgnnnnt gnnnc

15

<210> 137
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1, 2, 3, 4, 5, 6, 15, 16
<223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val,
His, or Pro

<220>
<221> VARIANT
<222> 8, 9, 10, 11, 12, 13
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu,
Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<400> 137
Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
1 5 10 15

<210> 138
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1, 2, 3, 4, 5, 6, 17, 18
<223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val,
His, or Pro

<220>

<221> VARIANT

<222> 8, 9, 10, 11, 12, 13, 14, 15

<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<400> 138

Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
1 5 10 15
Xaa Xaa

<210> 139

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 15, 16

<223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val, His, or Pro

<400> 139

Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
1 5 10 15

<210> 140

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18

<223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val, His, or Pro

<400> 140

Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
1 5 10 15
Xaa Xaa

<210> 141

<211> 16

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 141
Asn Phe Val Ala Asp Ser Cys Pro Asp His Pro Tyr Pro Cys Ser Ala
1 5 10 15

<210> 142
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 142
Ile Val His His Ser Asp Cys Asp Ala Phe Tyr Pro Tyr Cys Asp Ser
1 5 10 15

<210> 143
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 143
Tyr Ser Ala Tyr Pro Ala Cys Asp Ser His Tyr Pro Tyr Cys Asn Ser
1 5 10 15

<210> 144
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 144
Pro Asn Pro Ser Ser Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr
1 5 10 15

<210> 145
<211> 16

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 145
Tyr Ser Ala Tyr Pro Ala Cys Asp Ser His Tyr Pro Tyr Cys Gln Ser
1 5 10 15

<210> 146
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 146
Pro Gln Pro Ser Ser Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr
1 5 10 15

<210> 147
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 147
Pro Asn Pro Ala Ser Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr
1 5 10 15

<210> 148
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 148
Glu Val Gly Ser Tyr
1 5

<210> 149
<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 149
Ser Gly Arg Ser Ala
1 5

<210> 150
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 150
Pro Leu Gly Leu Ala Gly
1 5

<210> 151
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 151
Glu Asn Leu Tyr Phe Gln Gly
1 5

<210> 152
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 20, 21
<223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val,

His, or Pro

<400> 152
 Glu Val Gly Ser Tyr Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
 1 5 10 15
 Xaa Xaa Cys Xaa Xaa Ser Gly Arg Ser Ala
 20 25

<210> 153
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 6, 7, 8, 9, 10, 11, 20, 21
 <223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val,
 His, or Pro

<220>
 <221> VARIANT
 <222> 13, 14, 15, 16, 17, 18
 <223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu,
 Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<400> 153
 Glu Val Gly Ser Tyr Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
 1 5 10 15
 Xaa Xaa Cys Xaa Xaa Ser Gly Arg Ser Ala
 20 25

<210> 154
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23
 <223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val,
 His, or Pro

<400> 154
 Glu Val Gly Ser Tyr Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Cys Xaa Xaa Ser Gly Arg Ser Ala
20 25

<210> 155
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 6, 7, 8, 9, 10, 11, 22, 23
<223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val,
His, or Pro

<220>
<221> VARIANT
<222> 13, 14, 15, 16, 17, 18, 19, 20
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu,
Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<400> 155
Glu Val Gly Ser Tyr Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
1 5 10 15
Xaa Xaa Xaa Xaa Cys Xaa Xaa Ser Gly Arg Ser Ala
20 25

<210> 156
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 156
Gly Gly Gly Gly Ser
1 5

<210> 157
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 157
Ser Gly Gly Ser
1

<210> 158
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 158
Gly Gly Ser Gly
1

<210> 159
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 159
Gly Gly Ser Gly Gly
1 5

<210> 160
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 160
Gly Ser Gly Ser Gly
1 5

<210> 161
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 161
Gly Ser Gly Gly Gly
1 5

<210> 162
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 162
Gly Gly Gly Ser Gly
1 5

<210> 163
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 163
Gly Ser Ser Ser Gly
1 5

<210> 164
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 6
<223> Xaa = Ala, Asp, Ile, Asn, Pro, or Tyr

<220>
<221> VARIANT
<222> 7
<223> Xaa = Ala, Phe, Asn, Ser, or Val

<220>
<221> VARIANT
<222> 8

<223> Xaa = Ala, His, Leu, Pro, Ser, Val, or Tyr

<220>

<221> VARIANT

<222> 9

<223> Xaa = Ala, His, Ser, or Tyr

<220>

<221> VARIANT

<222> 10

<223> Xaa = Ala, Asp, Pro, Ser, Val, or Tyr

<220>

<221> VARIANT

<222> 11

<223> Xaa = Ala, Asp, Leu, Ser, or Tyr

<220>

<221> VARIANT

<222> 13

<223> Xaa = Asp, Pro, or Val

<220>

<221> VARIANT

<222> 14

<223> Xaa = Ala, Asp, His, Pro, Ser, or Thr

<220>

<221> VARIANT

<222> 15

<223> Xaa = Ala, Asp, Phe, His, Pro, or Tyr

<220>

<221> VARIANT

<222> 16

<223> Xaa = Leu, Pro, or Tyr

<220>

<221> VARIANT

<222> 17

<223> Xaa = Phe, Pro, or Tyr

<220>

<221> VARIANT

<222> 18

<223> Xaa = Ala, Pro, Ser, or Tyr

<220>

<221> VARIANT

<222> 20

<223> Xaa = Ala, Asp, Asn, Ser, Thr, or Tyr

<220>

<221> VARIANT

<222> 21

<223> Xaa = Ala, Ser, or Tyr

<400> 164

Glu	Val	Gly	Ser	Tyr	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa
1				5				10					15		
Xaa	Xaa	Cys	Xaa	Xaa	Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Thr	Glu
		20					25					30			
Asn	Leu	Tyr	Phe	Gln	Gly	Ser	Gly	Gly	Ser						
		35					40								

<210> 165

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 165

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

<210> 166

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 166

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

<210> 167

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 167

Glu	Val	Gly	Ser	Tyr	Ala	Ser	Ser	Ala	Val	Leu	Cys	Val	Thr	Ala	Tyr
1				5				10						15	
Phe	Ser	Cys	Asn	Ser	Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Thr	Glu
			20				25						30		
Asn	Leu	Tyr	Phe	Gln	Gly	Ser	Gly	Gly	Ser						
		35					40								

<210> 168

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 168

Glu	Val	Gly	Ser	Tyr	Asn	Phe	Val	Ala	Asp	Ser	Cys	Pro	Asp	His	Pro
1				5				10						15	
Tyr	Pro	Cys	Ser	Ala	Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Ser	Pro
			20				25						30		
Leu	Gly	Leu	Ala	Gly	Ser	Gly	Gly	Ser							
		35					40								

<210> 169

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 169

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

<210> 170

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 170

Glu	Val	Gly	Ser	Tyr	Ile	Val	His	His	Ser	Asp	Cys	Asp	Ala	Phe	Tyr
1				5					10					15	
Pro	Tyr	Cys	Asp	Ser	Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Ser	Pro
			20					25					30		
Leu	Gly	Leu	Ala	Gly	Ser	Gly	Gly	Ser							
		35					40								

<210> 171

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 171

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

<210> 172

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 172

Glu	Val	Gly	Ser	Tyr	Tyr	Ser	Ala	Tyr	Pro	Ala	Cys	Asp	Ser	His	Tyr
1				5					10					15	
Pro	Tyr	Cys	Asn	Ser	Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Ser	Pro
			20					25					30		
Leu	Gly	Leu	Ala	Gly	Ser	Gly	Gly	Ser							
		35					40								

<210> 173

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 173

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

<210> 174

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 174

Glu	Val	Gly	Ser	Tyr	Pro	Asn	Pro	Ser	Ser	Asp	Cys	Val	Pro	Tyr	Tyr
1				5					10					15	
Tyr	Ala	Cys	Ala	Tyr	Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Ser	Pro
			20					25					30		
Leu	Gly	Leu	Ala	Gly	Ser	Gly	Gly	Ser							
		35					40								

<210> 175

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 175

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

<210> 176

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 176

Glu	Val	Gly	Ser	Tyr	Tyr	Ser	Ala	Tyr	Pro	Ala	Cys	Asp	Ser	His	Tyr
1				5					10					15	
Pro	Tyr	Cys	Gln	Ser	Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Ser	Pro
			20					25					30		
Leu	Gly	Leu	Ala	Gly	Ser	Gly	Gly	Ser							
		35					40								

<210> 177

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 177

Glu	Val	Gly	Ser	Tyr	Tyr	Ser	Ala	Tyr	Pro	Ala	Cys	Asp	Ser	His	Tyr
1				5					10					15	
Pro	Tyr	Cys	Asn	Ser	Ala	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Ser	Pro
			20					25					30		
Leu	Gly	Leu	Ala	Gly	Ser	Gly	Gly	Ser							
		35					40								

<210> 178

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 178

Glu	Val	Gly	Ser	Tyr	Pro	Gln	Pro	Ser	Ser	Asp	Cys	Val	Pro	Tyr	Tyr
1				5					10					15	
Tyr	Ala	Cys	Ala	Tyr	Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Ser	Pro
			20					25					30		
Leu	Gly	Leu	Ala	Gly	Ser	Gly	Gly	Ser							
		35					40								

<210> 179

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 179
 Glu Val Gly Ser Tyr Pro Asn Pro Ala Ser Asp Cys Val Pro Tyr Tyr
 1 5 10 15
 Tyr Ala Cys Ala Tyr Ser Gly Arg Ser Ala Gly Gly Gly Gly Ser Pro
 20 25 30
 Leu Gly Leu Ala Gly Ser Gly Gly Ser
 35 40

<210> 180
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 180
 Ser Gly Arg Ser Ala Gly Gly Gly Gly Ser Pro Leu Gly Leu Ala Gly
 1 5 10 15
 Ser Gly Gly Ser
 20

<210> 181
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1
 <223> Present in repeats of at least two and up to ten

<220>
 <221> VARIANT
 <222> 1, 10, 11
 <223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu,
 Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<400> 181
 Xaa Cys Pro Asp His Pro Tyr Pro Cys Xaa Xaa
 1 5 10

<210> 182
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Present in repeats of at least two and up to ten

<220>
<221> VARIANT
<222> 1, 10, 11
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<400> 182
Xaa Cys Asp Ala Phe Tyr Pro Tyr Cys Xaa Xaa
1 5 10

<210> 183
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Present in repeats of at least two and up to ten

<220>
<221> VARIANT
<222> 1, 10, 11
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<400> 183
Xaa Cys Asp Ser His Tyr Pro Tyr Cys Xaa Xaa
1 5 10

<210> 184
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Present in repeats of at least two and up to ten

<220>
<221> VARIANT
<222> 1, 10, 11
<223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<400> 184
Xaa Cys Val Pro Tyr Tyr Tyr Ala Cys Xaa Xaa
1 5 10

<210> 185
<400> 185
000

<210> 186
<400> 186
000

<210> 187
<400> 187
000

<210> 188
<400> 188
000

<210> 189
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 189
Glu Val Gly Ser Tyr Asn Phe Val Ala Asp Ser Cys Pro Asp His Pro
1 5 10 15
Tyr Pro Cys Ser Ala
20

<210> 190

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

<220>
<223> Synthetic Construct

<400> 190
Glu Val Gly Ser Tyr Ile Val His His Ser Asp Cys Asp Ala Phe Tyr
1 5 10 15
Pro Tyr Cys Asp Ser
20

<210> 191
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 191
Glu Val Gly Ser Tyr Tyr Ser Ala Tyr Pro Ala Cys Asp Ser His Tyr
1 5 10 15
Pro Tyr Cys Asn Ser
20

<210> 192
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 192
Glu Val Gly Ser Tyr Pro Asn Pro Ser Ser Asp Cys Val Pro Tyr Tyr
1 5 10 15
Tyr Ala Cys Ala Tyr
20

<210> 193
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 193

Glu	Val	Gly	Ser	Tyr	Tyr	Ser	Ala	Tyr	Pro	Ala	Cys	Asp	Ser	His	Tyr
1				5					10					15	
Pro	Tyr	Cys	Gln	Ser											
			20												

<210> 194

<400> 194

000

<210> 195

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 195

Glu	Val	Gly	Ser	Tyr	Pro	Gln	Pro	Ser	Ser	Asp	Cys	Val	Pro	Tyr	Tyr
1				5					10					15	
Tyr	Ala	Cys	Ala	Tyr											
			20												

<210> 196

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 196

Glu	Val	Gly	Ser	Tyr	Pro	Asn	Pro	Ala	Ser	Asp	Cys	Val	Pro	Tyr	Tyr
1				5					10					15	
Tyr	Ala	Cys	Ala	Tyr											
			20												

<210> 197

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 197

Glu	Val	Gly	Ser	Tyr	Ile	Val	His	His	Ser	Asp	Cys	Asp	Ala	Phe	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1		5		10		15									
Pro	Tyr	Cys	Asp	Ser	Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Thr	Pro
			20					25					30		
Leu	Gly	Leu	Ala	Gly	Ser	Gly	Gly	Ser							
		35					40								

<210> 198
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 198
Glu Val Gly His Ser Asp Cys Asp Ala Phe Tyr Pro Tyr Cys Asp Ser
1 5 10 15
Ser Gly Arg Ser Ala Gly Gly Gly Gly Thr Pro Leu Gly Leu Ala Gly
20 25 30
Ser Gly Gly Ser
35

<210> 199
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 199
Glu Asp Cys Asp Ala Phe Tyr Pro Tyr Cys Asp Ser Ser Gly Arg Ser
1 5 10 15
Ala Gly Gly Gly Gly Thr Pro Leu Gly Leu Ala Gly Ser Gly Gly Ser
20 25 30

<210> 200
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 200
Glu Val Gly Ser Tyr Pro Asn Pro Ser Ser Asp Cys Val Pro Tyr Tyr
1 5 10 15
Tyr Ala Cys Ala Tyr Ser Gly Arg Ser Ala Gly Gly Gly Gly Gly Thr Pro
20 25 30

Leu Gly Leu Ala Gly Ser Gly Gly Ser
 35 40

<210> 201
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 201
 Glu Val Gly Ser Ser Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr
 1 5 10 15
 Ser Gly Arg Ser Ala Gly Gly Gly Gly Thr Pro Leu Gly Leu Ala Gly
 20 25 30
 Ser Gly Gly Ser
 35

<210> 202
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 202
 Glu Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr Ser Gly Arg Ser
 1 5 10 15
 Ala Gly Gly Gly Gly Thr Pro Leu Gly Leu Ala Gly Ser Gly Gly Ser
 20 25 30

<210> 203
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 203
 Met His Val Ala Gln Pro Ala Val Val Leu Ala Ser Ser Arg Gly Ile
 1 5 10 15
 Ala Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr Glu Val
 20 25 30
 Arg Val Thr Val Leu Arg Gln Ala Asp Ser Gln Val Thr Glu Val Cys
 35 40 45
 Ala Ala Thr Tyr Met Met Gly Asn Glu Leu Thr Phe Leu Asp Asp Ser

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

<210> 204
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 204
Met His Val Ala Gln Pro Ala Val Val Leu Ala Ser Ser Arg Gly Ile
1 5 10 15
Ala Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr Glu Val
20 25 30
Arg Val Thr Val Leu Arg Gln Ala Asp Ser Gln Val Thr Glu Val Cys
35 40 45
Ala Ala Thr Tyr Met Met Gly Asn Glu Leu Thr Phe Leu Asp Asp Ser
50 55 60
Ile Cys Thr Gly Thr Ser Ser Gly Asn Gln Val Asn Leu Thr Ile Gln
65 70 75 80
Gly Leu Arg Ala Met Asp Thr Gly Leu Tyr Ile Cys Lys Val Glu Leu
85 90 95
Met Tyr Pro Pro Pro Tyr Tyr Leu Gly Ile Gly Asn Gly Thr Gln Ile
100 105 110
Tyr Val Ile Asp Pro Glu
115

<210> 205
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 205
Lys Ala Met His Val Ala Gln Pro Ala Val Val Leu Ala Ser Ser Arg
1 5 10 15
Gly Ile Ala Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr
20 25 30
Glu Val Arg Val Thr Val Leu Arg Gln Ala Asp Ser Gln Val Thr Glu

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

<210> 206

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 206

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

<210> 207

<211> 120

<212> PRT

<213> Homo sapiens

<400> 207

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

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

<210> 208

<211> 120

<212> PRT

<213> Mus musculus

<400> 208

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

<210> 209

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 209

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

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

<220>
<223> Synthetic Construct

<400> 210
Glu Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr Ser Gly Arg Ser
1 5 10 15
Ala Pro Leu Gly Leu Ala
20

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

<220>
<223> Synthetic Construct

<400> 211
Glu Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr Ser Gly Arg Ser
1 5 10 15
Ala

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

<220>
<223> Synthetic Construct

<400> 212
Glu Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr Pro Leu Gly Leu
1 5 10 15
Ala

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

<220>
<223> Synthetic Construct

<400> 213
Glu Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr
1 5 10

<210> 214
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 214
Glu Val Gly Ser Ser Asp Cys Val Pro Tyr Tyr Tyr Ala Cys Ala Tyr
1 5 10 15

<210> 215
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 215
Glu Asp Cys Asp Ala Phe Tyr Pro Tyr Cys Asp Ser
1 5 10

<210> 216
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 216
Glu Val Gly His Ser Asp Cys Asp Ala Phe Tyr Pro Tyr Cys Asp Ser
1 5 10 15

<210> 217
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Present in repeats of at least one and up to 11

<220>
 <221> VARIANT
 <222> 5, 6, 7, 8, 9, 10, 11, 12
 <223> Xaa = Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, or Tyr

<220>
 <221> VARIANT
 <222> 3, 14, 15
 <223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val, His, or Pro

<400> 217
 Glu Val Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Ser
 1 5 10 15
 Gly Arg Ser Ala
 20

<210> 218
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 4, 5, 6, 7, 8, 9, 11, 12
 <223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val, His, or Pro

<400> 218
 Glu Asp Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Ser Gly Arg Ser
 1 5 10 15
 Ala

<210> 219
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 4, 5, 6, 7, 8, 9, 11, 12

<223> Xaa = Asp, Ala, Tyr, Ser, Thr, Asn, Ile, Leu, Phe, Val,
His, or Pro

<400> 219

Glu	Asp	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Pro	Leu	Gly	Leu
1				5					10					15	
Ala															

<210> 220

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 220

Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Thr	Glu	Asn	Leu	Tyr	Phe	Gln
1				5					10					15	
Gly	Ser	Gly	Gly	Ser											
				20											

<210> 221

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 221

Ser	Gly	Arg	Ser	Ala	Gly	Gly	Gly	Gly	Thr	Pro	Leu	Gly	Leu	Ala	Gly
1				5					10					15	
Ser	Gly	Gly	Ser												
				20											

<210> 222

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 222

Ser Gly Arg Ser Ala Pro Leu Gly Leu Ala
1 5 10

<210> 223

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 223

Phe Ser Leu Ser Thr Gly Gly Val Gly Val Gly Trp Ile
1 5 10

<210> 224

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 224

Leu Ala Leu Ile Asp Trp Ala Asp Asp Lys Tyr Tyr Ser Pro Ser Leu
1 5 10 15
Lys Ser Arg Leu
20

<210> 225

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 225

Ala Arg Gly Gly Ser Asp Thr Val Ile Gly Asp Trp Phe Ala Tyr
1 5 10 15

<210> 226

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 226

Arg Ala Ser Gln Ser Ile Gly Ser Tyr Leu Ala
1 5 10

<210> 227

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 227

Asp Ala Ser Asn Leu Glu Thr Gly Val
1 5

<210> 228

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 228

Tyr Cys Gln Gln Gly Tyr Tyr Leu Trp Thr
1 5 10

<210> 229

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 229

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

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

<210> 230

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 230

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