

SEQUENCE LISTING

<110> Eureka Therapeutics, Inc.

Liu, Hong

Zhang, Pengbo

Horan, Lucas

Xu, Yiyang

Staley, Binnaz K.

Liu, Lianxing

Yun, Hongruo

<120> CELLS EXPRESSING CHIMERIC ACTIVATING RECEPTORS AND
CHIMERIC STIMULATING RECEPTORS AND USES THEREOF

<130> 75004-20010.40

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> US 62/490,580

<151> 2017-04-26

<150> US 62/490,578

<151> 2017-04-26

<150> US 62/490,576

<151> 2017-04-26

<160> 105

<170> FastSEQ for Windows Version 4.0

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<211> 142

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

Asp	Val	Lys	Leu	Val	Glu	Lys	Ser	Phe	Glu	Thr	Asp	Thr	Asn	Leu	Asn
			100					105					110		
Phe	Gln	Asn	Leu	Ser	Val	Ile	Gly	Phe	Arg	Ile	Leu	Leu	Leu	Lys	Val
		115					120					125			
Ala	Gly	Phe	Asn	Leu	Leu	Met	Thr	Leu	Arg	Leu	Trp	Ser	Ser		
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<213> Artificial Sequence

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<400> 2

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

Phe

<210> 3

<211> 153

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<213> Artificial Sequence

<220>

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<400> 3

Ser	Gln	Pro	His	Thr	Lys	Pro	Ser	Val	Phe	Val	Met	Lys	Asn	Gly	Thr
1				5					10					15	

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

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

<210> 5

<211> 20
<212> PRT
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<400> 5
Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu Arg
1 5 10 15
Leu Trp Ser Ser
20

<210> 6
<211> 23
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 6
Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val
1 5 10 15
Leu Val Ser Ala Leu Val Leu
20

<210> 7
<211> 25
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 7
Val Leu Gly Leu Arg Met Leu Phe Ala Lys Thr Val Ala Val Asn Phe
1 5 10 15
Leu Leu Thr Ala Lys Leu Phe Phe Leu
20 25

<210> 8
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 8
Tyr Tyr Met Tyr Leu Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala

1 5 10 15
Ile Ile Thr Cys Cys Leu Leu
20

<210> 9
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<220>
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<400> 9
Val Leu Gly Leu Arg Met Leu Phe Ala Lys Thr Val Ala Val Asn Phe
1 5 10 15
Leu Leu Thr Ala Lys Leu Phe Ser Leu
20 25

<210> 10
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<400> 10
Val Leu Gly Leu Arg Val Leu Phe Ala Lys Thr Val Ala Val Asn Phe
1 5 10 15
Leu Leu Thr Ala Lys Leu Phe Phe Leu
20 25

<210> 11
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<400> 11
Val Leu Gly Cys Arg Met Leu Phe Ala Lys Thr Val Ala Val Asn Phe
1 5 10 15
Leu Leu Thr Ala Lys Leu Phe Phe Leu
20 25

<210> 12
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<400> 12

Val	Leu	Gly	Leu	Arg	Met	Leu	Phe	Ala	Lys	Thr	Phe	Ala	Val	Ser	Phe
1				5					10					15	
Leu	Leu	Thr	Ala	Lys	Leu	Phe	Phe	Leu							
			20					25							

<210> 13

<211> 25

<212> PRT

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<223> Synthetic Construct

<400> 13

Val	Leu	Gly	Leu	Arg	Met	Leu	Phe	Ala	Lys	Thr	Val	Ala	Val	Asn	Phe
1				5					10					15	
Leu	Leu	Thr	Ala	Lys	Leu	Phe	Phe	Ser							
			20					25							

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<400> 14

Tyr	Tyr	Met	Tyr	Leu	Leu	Leu	Leu	Leu	Lys	Ser	Val	Tyr	Tyr	Phe	Ala
1				5					10					15	
Ile	Ile	Thr	Cys	Cys	Leu	Leu	Arg	Arg	Thr	Ala	Phe				
			20					25							

<210> 15

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 15

Tyr	Tyr	Met	Tyr	Leu	Leu	Leu	Leu	Leu	Lys	Ser	Val	Val	Tyr	Phe	Ala
1				5					10					15	
Ile	Ile	Thr	Cys	Gly	Leu	Leu	Arg	Arg	Thr	Ala	Phe				
			20					25							

<210> 16
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<400> 16
Tyr Leu Val Tyr Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Val
1 5 10 15
Ile Val Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe
20 25

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

<220>
<223> Synthetic Construct

<400> 17
Tyr Leu Met Tyr Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala
1 5 10 15
Ile Ile Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe
20 25

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

<220>
<223> Synthetic Construct

<400> 18
Tyr Tyr Val Tyr Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala
1 5 10 15
Ile Ile Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe
20 25

<210> 19
<211> 28
<212> PRT
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<220>
<223> Synthetic Construct

<400> 19

Tyr	Tyr	Met	Tyr	Leu	Leu	Leu	Leu	Leu	Lys	Ser	Val	Val	Tyr	Phe	Val
1				5					10					15	
Ile	Ile	Thr	Cys	Cys	Leu	Leu	Arg	Arg	Thr	Ala	Phe				
			20					25							

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<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 20

Tyr	Tyr	Met	Tyr	Leu	Leu	Leu	Leu	Leu	Lys	Ser	Val	Val	Tyr	Phe	Ala
1				5					10					15	
Ile	Val	Thr	Cys	Cys	Leu	Leu	Arg	Arg	Thr	Ala	Phe				
			20					25							

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<400> 21

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

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<223> Synthetic Construct

<400> 22

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

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<400> 23
Tyr Tyr Met Tyr Cys Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala
1 5 10 15
Ile Ile Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe
20 25

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<212> PRT
<213> Artificial Sequence

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<400> 24
Tyr Tyr Met Tyr Leu Leu Leu Phe Leu Lys Ser Phe Val Tyr Ser Ala
1 5 10 15
Ile Ile Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe
20 25

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<212> PRT
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<223> Synthetic Construct

<400> 25
Tyr Tyr Met Tyr Leu Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala
1 5 10 15
Ile Ile Thr Met Cys Leu Leu Arg Arg Thr Ala Phe
20 25

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<212> PRT
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<220>
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<400> 26
Gln Tyr Met Tyr Leu Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala

1	5	10	15
Ile Ile Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe			
20	25		

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<400> 27															
Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp															
1	5	10	15												
Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe Arg															
20	25	30													

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<220>
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<400> 28															
Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp Val															
1	5	10	15												
Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe Gln															
20	25	30													
Asn Leu Ser Val Ile Gly Phe Arg															
35	40														

<210> 29
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<400> 29															
Ala Asp Cys Gly Phe Thr Ser Val Ser Tyr Gln Gln Gly Val Leu Ser															
1	5	10	15												
Ala															

<210> 30
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<212> PRT
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<400> 30
Gly Arg Ala Asp Cys Gly Phe Thr Ser Val Ser Tyr Gln Gln Gly Val
1 5 10 15
Leu Ser Ala

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<400> 31
Asp His Val Lys Pro Lys Glu Thr Glu Asn Thr Lys Gln Pro Ser Lys
1 5 10 15
Ser Cys His Lys Pro Lys Ala Ile Val His Thr Glu Lys Val Asn Met
20 25 30
Met Ser Leu Thr Val Leu Gly Leu Arg
35 40

<210> 32
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<212> PRT
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<400> 32
Glu Val Lys Thr Asp Ser Thr Asp His Val Lys Pro Lys Glu Thr Glu
1 5 10 15
Asn Thr Lys Gln Pro Ser Lys Ser Cys His Lys Pro Lys Ala Ile Val
20 25 30
His Thr Glu Lys Val Asn Met Met Ser Leu Thr Val Leu Gly Leu Arg
35 40 45

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<212> PRT
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<220>
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<400> 33

Met Asp Pro Lys Asp Asn Cys Ser Lys Asp Ala Asn Asp Thr Leu Leu
1 5 10 15
Leu Gln Leu Thr Asn Thr Ser Ala
20

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<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 34

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

<210> 35

<211> 9

<212> PRT

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<220>

<223> Synthetic Construct

<400> 35

Met Ala Met Val Lys Arg Lys Asp Phe
1 5

<210> 36

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 36

Arg Arg Thr Ala Phe Cys Cys Asn Gly Glu Lys Ser
1 5 10

<210> 37

<211> 101

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 37

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

<210> 38

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 38

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

<210> 39

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 39

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

<210> 40

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<220>

<223> Synthetic Construct

<400> 40

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

<210> 41

<211> 101

<212> PRT

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<223> Synthetic Construct

<400> 41

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

<210> 42
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<220>
 <223> Synthetic Construct

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

<210> 43
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 44
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 45
 <211> 159
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Glu	Tyr	Lys	Cys	Val	Val	Gln	His	Thr	Ala	Ser	Lys	Ser	Lys	Lys	Glu
				85					90					95	
Ile	Phe	Arg	Trp	Pro	Glu	Ser	Pro	Lys	Ala	Gln	Ala	Ser	Ser	Val	Pro
			100					105					110		
Thr	Ala	Gln	Pro	Gln	Ala	Glu	Gly	Ser	Leu	Ala	Lys	Ala	Thr	Thr	Ala
		115					120					125			
Pro	Ala	Thr	Thr	Arg	Asn	Thr	Gly	Arg	Gly	Gly	Glu	Glu	Lys	Lys	Lys
	130				135						140				
Glu	Lys	Glu	Lys	Glu	Glu	Gln	Glu	Glu	Arg	Glu	Thr	Lys	Thr	Pro	
145					150				155						

<210> 46
 <211> 103
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 47
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Tyr	Ala	Ala	Thr	Ser	Gln	Val	Leu	Leu	Pro	Ser	Lys	Asp	Val	Met	Gln
65					70					75					80
Gly	Thr	Asp	Glu	His	Val	Val	Cys	Lys	Val	Gln	His	Pro	Asn	Gly	Asn
				85					90					95	
Lys	Glu	Lys	Asn	Val	Pro	Leu	Pro								
			100												

<210> 48
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 49
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Pro Arg Asp Phe Ala Ala Tyr Arg Ser
100 105

<210> 50

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 50

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

<210> 51

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 51

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

<210> 52
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 52
Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr
1 5 10 15
Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro
20 25 30
Pro Arg Asp Phe Ala Ala Tyr Arg Ser
35 40

<210> 53
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<210> 54
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 54
Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met
1 5 10 15
Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe
20 25 30
Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu

35

40

<210> 55
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 56
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 56
 Ala Leu Tyr Leu Leu Arg Arg Asp Gln Arg Leu Pro Pro Asp Ala His
 1 5 10 15
 Lys Pro Pro Gly Gly Gly Ser Phe Arg Thr Pro Ile Gln Glu Glu Gln
 20 25 30
 Ala Asp Ala His Ser Thr Leu Ala Lys Ile
 35 40

<210> 57
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 57

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

<210> 58
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 59
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 60
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 61
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 61															
Gln	Ile	Val	Leu	Ser	Gln	Ser	Pro	Ala	Ile	Leu	Ser	Asp	Gly	Glu	Lys
1				5					10					15	
Val	Thr	Met	Thr	Cys	Arg	Ala	Ser	Ser	Ser	Val	Ser	Tyr	Ile	His	Trp
		20					25					30			
Phe	Gln	Gln	Lys	Pro	Gly	Ser	Ser	Pro	Lys	Pro	Trp	Ile	Tyr	Ala	Thr
		35					40					45			

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

<210> 62
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 63
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 64
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 65
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Thr	Gly	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gly	Thr	Trp	Asp	Tyr	Thr	Leu
				85					90					95	
Asn	Gly	Val	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly	
			100					105					110		

<210> 66
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 66															
Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Gln
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Tyr	Thr	Phe	Thr	Asn	Tyr
			20					25						30	
Tyr	Val	Phe	Trp	Val	Arg	Gln	Arg	Gln	Arg	Leu	Glu	Trp	Ile	Gly	Asp
		35					40					45			
Ile	Asn	Pro	Val	Asn	Gly	Asp	Thr	Asn	Phe	Asn	Glu	Lys	Phe	Lys	Asn
	50				55						60				
Arg	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr	Leu	Gln
65					70				75					80	
Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Arg	Gly
				85					90					95	
Tyr	Thr	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser
			100					105					110		

<210> 67
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 67															
Asp	Ile	Val	Met	Thr	Gln	Thr	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Val	His	Ser
			20					25						30	
Asn	Gly	Asn	Thr	Tyr	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala
		35					40					45			
Pro	Lys	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Tyr	Arg	Phe	Ser	Gly	Val	Pro
	50					55					60				
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile
65					70				75					80	
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Ser	Gln	Asn
				85				90						95	
Thr	His	Val	Pro	Arg	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

Arg

<210> 68
<211> 286
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 68
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15
Ser Leu Thr Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Pro Asn Tyr
20 25 30
Trp Ile Thr Trp Val Arg Gln Met Ser Gly Gly Gly Leu Glu Trp Met
35 40 45
Gly Arg Ile Asp Pro Gly Asp Ser Tyr Thr Thr Tyr Asn Pro Ser Phe
50 55 60
Gln Gly His Val Thr Ile Ser Ile Asp Lys Ser Thr Asn Thr Ala Tyr
65 70 75 80
Leu His Trp Asn Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Ala Arg Tyr Tyr Val Ser Leu Val Asp Ile Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser Ala Ser Thr Lys 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 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
180 185 190
Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
195 200 205
Val Asp Lys Arg Val Glu Pro Lys Ser Cys Glu Val Lys Thr Asp Ser
210 215 220
Thr Asp His Val Lys Pro Lys Glu Thr Glu Asn Thr Lys Gln Pro Ser
225 230 235 240
Lys Ser Cys His Lys Pro Lys Ala Ile Val His Thr Glu Lys Val Asn
245 250 255
Met Met Ser Leu Thr Val Leu Gly Leu Arg Met Leu Phe Ala Lys Thr
260 265 270
Val Ala Val Asn Phe Leu Leu Thr Ala Lys Leu Phe Phe Leu
275 280 285

<210> 69
<211> 283
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 69

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

<210> 70

<211> 286

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 70

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu

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

<210> 71

<211> 283

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 71

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

Ser	Gly	Ser	Lys	Ser	Gly	Asn	Thr	Ala	Ser	Leu	Thr	Ile	Ser	Gly	Leu
65					70					75					80
Gln	Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ser	Ser	Tyr	Thr	Thr	Gly
				85					90					95	
Ser	Arg	Ala	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly	Gln
			100					105					110		
Pro	Lys	Ala	Asn	Pro	Thr	Val	Thr	Leu	Phe	Pro	Pro	Ser	Ser	Glu	Glu
		115					120					125			
Leu	Gln	Ala	Asn	Lys	Ala	Thr	Leu	Val	Cys	Leu	Ile	Ser	Asp	Phe	Tyr
	130					135					140				
Pro	Gly	Ala	Val	Thr	Val	Ala	Trp	Lys	Ala	Asp	Gly	Ser	Pro	Val	Lys
145					150					155					160
Ala	Gly	Val	Glu	Thr	Thr	Lys	Pro	Ser	Lys	Gln	Ser	Asn	Asn	Lys	Tyr
				165					170					175	
Ala	Ala	Ser	Ser	Tyr	Leu	Ser	Leu	Thr	Pro	Glu	Gln	Trp	Lys	Ser	His
			180					185					190		
Arg	Ser	Tyr	Ser	Cys	Gln	Val	Thr	His	Glu	Gly	Ser	Thr	Val	Glu	Lys
		195					200					205			
Thr	Val	Ala	Pro	Thr	Glu	Cys	Ser	Pro	Ile	Lys	Thr	Asp	Val	Ile	Thr
	210					215					220				
Met	Asp	Pro	Lys	Asp	Asn	Cys	Ser	Lys	Asp	Ala	Asn	Asp	Thr	Leu	Leu
225					230					235					240
Leu	Gln	Leu	Thr	Asn	Thr	Ser	Ala	Tyr	Leu	Val	Tyr	Leu	Leu	Leu	Leu
				245					250					255	
Leu	Lys	Ser	Val	Val	Tyr	Phe	Val	Ile	Val	Thr	Cys	Cys	Leu	Leu	Arg
			260					265					270		
Arg	Thr	Ala	Phe	Cys	Cys	Asn	Gly	Glu	Lys	Ser					
		275					280								

<210> 72

<211> 299

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 72

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

Val	Glu	Thr	Thr	Lys	Pro	Ser	Lys	Gln	Ser	Asn	Asn	Lys	Tyr	Ala	Ala	
				165					170					175		
Ser	Ser	Tyr	Leu	Ser	Leu	Thr	Pro	Glu	Gln	Trp	Lys	Ser	His	Arg	Ser	
			180					185					190			
Tyr	Ser	Cys	Gln	Val	Thr	His	Glu	Gly	Ser	Thr	Val	Glu	Lys	Thr	Val	
		195					200					205				
Ala	Pro	Thr	Glu	Cys	Ser	Pro	Ile	Lys	Thr	Asp	Val	Ile	Thr	Met	Asp	
	210				215					220						
Pro	Lys	Asp	Asn	Cys	Ser	Lys	Asp	Ala	Asn	Asp	Thr	Leu	Leu	Leu	Gln	
225				230					235						240	
Leu	Thr	Asn	Thr	Ser	Ala	Tyr	Tyr	Met	Tyr	Leu	Leu	Leu	Leu	Leu	Lys	
			245					250						255		
Ser	Val	Val	Tyr	Phe	Ala	Ile	Ile	Thr	Cys	Cys	Leu	Leu	Arg	Arg	Thr	
			260					265					270			
Ala	Phe	Cys	Cys	Asn	Gly	Glu	Lys	Ser								
		275					280									

<210> 74

<211> 299

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 74

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

210	215	220
Arg Val Glu Pro Lys Ser Cys Glu Val Lys Thr Asp Ser Thr Asp His		
225	230	235
Val Lys Pro Lys Glu Thr Glu Asn Thr Lys Gln Pro Ser Lys Ser Cys		
245	250	255
His Lys Pro Lys Ala Ile Val His Thr Glu Lys Val Asn Met Met Ser		
260	265	270
Leu Thr Val Leu Gly Leu Arg Val Leu Phe Ala Lys Thr Val Ala Val		
275	280	285
Asn Phe Leu Leu Thr Ala Lys Leu Phe Phe Leu		
290	295	

<210> 75

<211> 281

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 75

Leu Pro Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys	
1	5
Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Ser Val	
20	25
His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr	
35	40
Asp Asp Ser Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser	
50	55
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly	
65	70
Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ser Glu Tyr	
85	90
Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys	
100	105
Ala Asn Pro Thr Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln	
115	120
Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly	
130	135
Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro Val Lys Ala Gly	
145	150
Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala	
165	170
Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser	
180	185
Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys Thr Val	
195	200
Ala Pro Thr Glu Cys Ser Pro Ile Lys Thr Asp Val Ile Thr Met Asp	
210	215
Pro Lys Asp Asn Cys Ser Lys Asp Ala Asn Asp Thr Leu Leu Leu Gln	
225	230
Leu Thr Asn Thr Ser Ala Tyr Leu Val Tyr Leu Leu Leu Leu Lys	
245	250
	255

Ser	Val	Val	Tyr	Phe	Val	Ile	Val	Thr	Cys	Cys	Leu	Leu	Arg	Arg	Thr
			260					265					270		
Ala	Phe	Cys	Cys	Asn	Gly	Glu	Lys	Ser							
		275					280								

<210> 76
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Ser	Arg	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly
1				5				10						15	
Ser	Leu	Glu	Met	Ala											
			20												

<210> 77
 <211> 260
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

[illegible]

$\langle 210 \rangle$ 78

$\langle 211 \rangle$ 245

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

$\langle 400 \rangle$ 78

[illegible]

<210> 79
 <211> 250
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 79
 Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Thr Arg Ser Asn Ile Gly Ser Asp
 20 25 30
 Tyr Val Ser Trp Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Val Tyr Gly Asp Asn Leu Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Ala Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
 65 70 75 80
 Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Tyr Thr Leu
 85 90 95
 Asn Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ser
 100 105 110
 Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 115 120 125
 Leu Glu Met Ala Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
 130 135 140
 Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
 145 150 155 160
 Phe Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
 165 170 175
 Leu Glu Trp Val Ser Val Ile Tyr Ser Gly Gly Ser Ser Thr Tyr Tyr
 180 185 190
 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
 195 200 205
 Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
 210 215 220
 Val Tyr Tyr Cys Ala Arg Thr Ser Tyr Leu Asn His Gly Asp Tyr Trp
 225 230 235 240
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 245 250

<210> 80
 <211> 368
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 80
 Leu Pro Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys

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

<210> 81

<211> 353

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 81

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

Ser

<210> 82

<211> 358

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 82

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

<210> 83

<211> 180
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 83
ggaggaaaaa ctgtttcata cagaaggcgt ggaggaaaaa ctgtttcata cagaaggcgt 60
ggaggaaaaa ctgtttcata cagaaggcgt ggaggaaaaa ctgtttcata cagaaggcgt 120
ggaggaaaaa ctgtttcata cagaaggcgt ggaggaaaaa ctgtttcata cagaaggcgt 180

<210> 84
<211> 149
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 84
gccgccccga ctgcatctgc gtgttccaat tcgccaatga caagacgctg ggcgggggttt 60
gtgtcatcat agaactaaag acatgcaaat atatttcttc cggggacacc gccagcaaac 120
gcgagcaacg ggccacgggg atgaagcag 149

<210> 85
<211> 335
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 85
ggaggaaaaa ctgtttcata cagaaggcgt ggaggaaaaa ctgtttcata cagaaggcgt 60
ggaggaaaaa ctgtttcata cagaaggcgt ggaggaaaaa ctgtttcata cagaaggcgt 120
ggaggaaaaa ctgtttcata cagaaggcgt ggaggaaaaa ctgtttcata cagaaggcgt 180
ctcgaggccg ccccgactgc atctgcgtgt tccaattcgc caatgacaag acgctgggcg 240
gggtttgtgt catcatagaa ctaaagacat gcaaatatat ttcttcggg gacaccgcca 300
gcaaacgcga gcaacgggcc acggggatga agcag 335

<210> 86
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 86
Pro Thr His Leu Pro Tyr Val Ser Glu Met Leu Glu Ala Arg Thr Ala
1 5 10 15
Gly His Met Gln Thr Leu Ala Asp Phe Arg Gln Leu Pro Ala Arg Thr

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

<210> 87

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 87

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

<210> 88

<211> 264

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 88

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

			100					105				110					
Pro	Arg	Arg	Ser	Ser	Thr	Gln	Leu	Arg	Ser	Gly	Ala	Ser	Val	Thr	Glu		
		115					120					125					
Pro	Val	Ala	Glu	Glu	Arg	Gly	Leu	Met	Ser	Gln	Pro	Leu	Met	Cys	His		
	130					135					140						
Ser	Val	Gly	Ala	Ala	Tyr	Leu	Glu	Ser	Leu	Pro	Leu	Gln	Asp	Asp	Ala		
145					150					155					160		
Gly	Gly	Pro	Ser	Ser	Pro	Arg	Asp	Leu	Pro	Glu	Pro	Arg	Val	Ser	Thr		
			165						170					175			
Glu	His	Thr	Asn	Asn	Lys	Ile	Glu	Lys	Ile	Tyr	Ile	Met	Lys	Ala	Asp		
		180						185				190					
Thr	Val	Ile	Val	Gly	Thr	Val	Lys	Ala	Glu	Leu	Pro	Glu	Gly	Arg	Gly		
	195						200					205					
Leu	Ala	Gly	Pro	Ala	Glu	Pro	Glu	Leu	Glu	Glu	Glu	Leu	Glu	Ala	Asp		
	210					215				220							
His	Thr	Pro	His	Tyr	Pro	Glu	Gln	Glu	Thr	Glu	Pro	Pro	Leu	Gly	Ser		
225				230						235					240		
Cys	Ser	Asp	Val	Met	Leu	Ser	Val	Glu	Glu	Glu	Gly	Lys	Glu	Asp	Pro		
			245					250						255			
Leu	Pro	Thr	Ala	Ala	Ser	Gly	Lys										
			260														

<210> 89

<211> 184

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 89

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

[illegible]

<210> 92
 <211> 99
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 92
 Ala Ala Ala Thr Gly Pro Ala Asp Leu Ser Pro Gly Ala Ser Ser Val
 1 5 10 15
 Thr Pro Pro Ala Pro Ala Arg Glu Pro Gly His Ser Pro Gln Ile Ile
 20 25 30
 Ser Phe Phe Leu Ala Leu Thr Ser Thr Ala Leu Leu Phe Leu Leu Phe
 35 40 45
 Phe Leu Thr Leu Arg Phe Ser Val Val Lys Arg Gly Arg Lys Lys Leu
 50 55 60
 Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln
 65 70 75 80
 Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly
 85 90 95
 Cys Glu Leu

<210> 93
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 93
 Ala Ala Ala Thr Gly Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro
 1 5 10 15
 Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys
 20 25 30
 Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala
 35 40 45
 Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu
 50 55 60
 Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Gln Arg Arg Lys Tyr Arg
 65 70 75 80
 Ser Asn Lys Gly Glu Ser Pro Val Glu Pro Ala Glu Pro Cys Arg Tyr
 85 90 95
 Ser Cys Pro Arg Glu Glu Glu Gly Ser Thr Ile Pro Ile Gln Glu Asp
 100 105 110
 Tyr Arg Lys Pro Glu Pro Ala Cys Ser Pro
 115 120

<210> 94
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 94
 Ala Ala Ala Thr Gly Pro Thr His Leu Pro Tyr Val Ser Glu Met Leu
 1 5 10 15
 Glu Ala Arg Thr Ala Gly His Met Gln Thr Leu Ala Asp Phe Arg Gln
 20 25 30
 Leu Pro Ala Arg Thr Leu Ser Thr His Trp Pro Pro Gln Arg Ser Leu
 35 40 45
 Cys Ser Ser Asp Phe Ile Arg Ile Leu Val Ile Phe Ser Gly Met Phe
 50 55 60
 Leu Val Phe Thr Leu Ala Gly Ala Leu Phe Leu His Gln Arg Arg Lys
 65 70 75 80
 Tyr Arg Ser Asn Lys Gly Glu Ser Pro Val Glu Pro Ala Glu Pro Cys
 85 90 95
 Arg Tyr Ser Cys Pro Arg Glu Glu Glu Gly Ser Thr Ile Pro Ile Gln
 100 105 110
 Glu Asp Tyr Arg Lys Pro Glu Pro Ala Cys Ser Pro
 115 120

<210> 95
 <211> 258
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

Leu	Glu	Ser	Leu	Pro	Leu	Gln	Asp	Asp	Ala	Gly	Gly	Pro	Ser	Ser	Pro
145					150					155					160
Arg	Asp	Leu	Pro	Glu	Pro	Arg	Val	Ser	Thr	Glu	His	Thr	Asn	Asn	Lys
				165					170						175
Ile	Glu	Lys	Ile	Tyr	Ile	Met	Lys	Ala	Asp	Thr	Val	Ile	Val	Gly	Thr
			180					185						190	
Val	Lys	Ala	Glu	Leu	Pro	Glu	Gly	Arg	Gly	Leu	Ala	Gly	Pro	Ala	Glu
		195					200					205			
Pro	Glu	Leu	Glu	Glu	Glu	Leu	Glu	Ala	Asp	His	Thr	Pro	His	Tyr	Pro
	210					215					220				
Glu	Gln	Glu	Thr	Glu	Pro	Pro	Leu	Gly	Ser	Cys	Ser	Asp	Val	Met	Leu
225					230					235					240
Ser	Val	Glu	Glu	Glu	Gly	Lys	Glu	Asp	Pro	Leu	Pro	Thr	Ala	Ala	Ser
				245					250						255

Gly Lys

<210> 96

<211> 269

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 96

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

210		215		220											
Glu	Leu	Glu	Ala	Asp	His	Thr	Pro	His	Tyr	Pro	Glu	Gln	Glu	Thr	Glu
225		230		235		240									
Pro	Pro	Leu	Gly	Ser	Cys	Ser	Asp	Val	Met	Leu	Ser	Val	Glu	Glu	Glu
		245		250		255									
Gly	Lys	Glu	Asp	Pro	Leu	Pro	Thr	Ala	Ala	Ser	Gly	Lys			
		260		265											

<210> 97
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 97
Ala Ala Ala Thr Gly Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro
1 5 10 15
Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys
20 25 30
Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala
35 40 45
Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu
50 55 60
Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Ala Leu Tyr Leu Leu Arg
65 70 75 80
Arg Asp Gln Arg Leu Pro Pro Asp Ala His Lys Pro Pro Gly Gly Gly
85 90 95
Ser Phe Arg Thr Pro Ile Gln Glu Glu Gln Ala Asp Ala His Ser Thr
100 105 110
Leu Ala Lys Ile
115

<210> 98
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 98
Ala Ala Ala Thr Gly Asp Arg Asp Pro Pro Ala Thr Gln Pro Gln Glu
1 5 10 15
Thr Gln Gly Pro Pro Ala Arg Pro Ile Thr Val Gln Pro Thr Glu Ala
20 25 30
Trp Pro Arg Thr Ser Gln Gly Pro Ser Trp Val Glu Val Pro Gly Gly
35 40 45
Arg Ala Val Ala Ala Ile Leu Gly Leu Gly Leu Val Leu Gly Leu Leu
50 55 60
Gly Pro Leu Ala Ile Leu Leu Ala Leu Tyr Leu Leu Arg Arg Asp Gln

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

<210> 99
 <211> 129
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 99
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ala Asp Lys Ser Ile Ser Thr Ala Tyr Leu
 65 70 75 80
 Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys Ala
 85 90 95
 Arg Gln Val Trp Gly Trp Gln Gly Gly Met Tyr Pro Arg Ser Asn Trp
 100 105 110
 Trp Tyr Asn Leu Asp Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 115 120 125
 Ser

<210> 100
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 101
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 101															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr
			20					25					30		
Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Ser	Ile	Ser	Gly	Ser	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val
		50				55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Thr	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Tyr	Gly	Ser	Ala	Ala	Trp	Met	Asp	Ser	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Leu	Val	Thr	Val	Ser	Ser										
			115												

<210> 102
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 102															
Asp	Ile	Gln	Leu	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Thr	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Gln	Ala	Ser	His	Asp	Ile	Arg	Asn	Tyr
			20					25					30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Asn	Leu	Leu	Ile
		35					40					45			
Tyr	Ala	Asn	Leu	Gln	Thr	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Arg	Gly
	50					55					60				
Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp

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

<210> 103
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 103
 Ala Ala Ala
 1

<210> 104
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 104
 Ala Ala Ala Thr Gly
 1 5

<210> 105
 <211> 500
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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