

SEQUENCE LISTING

<110> Nanjing Legend Biotech Co., Ltd

<120> IMMUNE CELL RECEPTORS COMPRISING CD4 BINDING MOIETIES

<130> 76142-28008.00

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> PCT/CN2019/087260

<151> 2019-05-16

<160> 65

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 1

Gly Gly Ser Phe Ser Gly Tyr

1

5

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<400> 2

Asn His Ser Gly Ser

1

5

<210> 3

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<220>

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Val Ile Asn Trp Phe Asp Pro
1 5

<210> 4
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<400> 4
Arg Ala Ser Gln Asp Ile Ser Ser Trp Leu Ala
1 5 10

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<400> 5
Ala Ala Ser Ser Leu Gln Ser
1 5

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<400> 6
Gln Gln Ala Asn Ser Phe Pro Tyr Thr
1 5

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<400> 7
Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu
1 5 10 15

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

<210> 8

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 8

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

<210> 9

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<400> 9

Gly	Tyr	Thr	Phe	Thr	Asp	Tyr	Val
1				5			

<210> 10

<211> 8

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<400> 10
Thr Tyr Thr Gly Ser Gly Ser Ser
1 5

<210> 11
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<213> Artificial Sequence

<220>
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<400> 11
Arg Gly Lys Gly Thr Gly Phe Ala Phe
1 5

<210> 12
<211> 10
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<213> Artificial Sequence

<220>
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<400> 12
Gln Ser Val Asp Tyr Asp Gly Asp Ser Tyr
1 5 10

<210> 13
<211> 7
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<220>
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<400> 13
Ala Ala Ser Asn Leu Glu Ser
1 5

<210> 14
<211> 9
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<223> Synthetic Construct

<400> 14

Gln Gln Ser Tyr Glu Asp Pro Pro Thr
1 5

<210> 15

<211> 118

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 15

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

<210> 16

<211> 111

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 16

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

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

<210> 17
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<400> 17
 Gly Tyr Thr Phe Thr Asn Tyr
 1 5

<210> 18
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 <212> PRT
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<220>
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<400> 18
 Asp Pro Ser Thr Gly Tyr
 1 5

<210> 19
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<220>
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<400> 19
 Glu Gly Gly Ile Gly Gly Phe Ala Tyr
 1 5

<210> 20
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<220>
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<400> 20

Arg Ala Ser Glu Ser Val Asp Ser Tyr Asp Asn Ser Phe Met His
1 5 10 15

<210> 21

<211> 7

<212> PRT

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<223> Synthetic Construct

<400> 21

Arg Ala Ser Asn Leu Glu Ser
1 5

<210> 22

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 22

Gln Gln Ser Lys Glu Asp Pro Tyr Thr
1 5

<210> 23

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 23

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

Leu Val Thr Val Ser Ala
115

<210> 24
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 24
Asp Ile Val Leu Thr Pro Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
1 5 10 15
Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Glu Ser Val Asp Ser Tyr
20 25 30
Asp Asn Ser Phe Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45
Lys Leu Leu Ile Tyr Arg Ala Ser Asn Leu Glu Ser Gly Ile Pro Ala
50 55 60
Arg Phe Ser Gly Ser Gly Ser Arg Thr Asp Phe Thr Leu Thr Ile Asp
65 70 75 80
Pro Val Glu Ala Asp Asp Val Ala Thr Tyr Tyr Cys Gln Gln Ser Lys
85 90 95
Glu Asp Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 25
<211> 7
<212> PRT
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<220>
<223> Synthetic Construct

<400> 25
Gly Tyr Thr Phe Thr Ser Tyr
1 5

<210> 26
<211> 6
<212> PRT
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<220>
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<400> 26
Asn Pro Tyr Asn Asp Gly
1 5

<210> 27
<211> 13
<212> PRT
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<220>
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<400> 27
Glu Lys Asp Asn Tyr Ala Thr Gly Ala Trp Phe Ala Tyr
1 5 10

<210> 28
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<400> 28
Lys Ser Ser Gln Ser Leu Leu Tyr Ser Thr Asn Gln Lys
1 5 10

<210> 29
<211> 7
<212> PRT
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<400> 29
Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 30
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 30
Gln Gln Tyr Tyr Ser Tyr Arg Thr
1 5

<210> 31

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

<220>
<223> Synthetic Construct

<400> 31
Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Val 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
Val Ile His Trp Val Arg Gln Lys Pro Gly Gln Gly Leu Asp Trp Ile
35 40 45
Gly Tyr Ile Asn Pro Tyr Asn Asp Gly Thr Asp Tyr Asp Glu Lys Phe
50 55 60
Lys Gly Lys Ala Thr Leu Thr Ser Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Glu Lys Asp Asn Tyr Ala Thr Gly Ala Trp Phe Ala Tyr Trp
100 105 110
Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
115 120

<210> 32
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 32
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15
Glu Arg Val Thr Met Asn Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30
Thr Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45
Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Val Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
85 90 95
Tyr Tyr Ser Tyr Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110
Arg

<210> 33

<211> 478
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 33

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

Lys	Phe	Ser	Arg	Ser	Ala	Asp	Ala	Pro	Ala	Tyr	Lys	Gln	Gly	Gln	Asn
370						375					380				
Gln	Leu	Tyr	Asn	Glu	Leu	Asn	Leu	Gly	Arg	Arg	Glu	Glu	Tyr	Asp	Val
385					390				395						400
Leu	Asp	Lys	Arg	Arg	Gly	Arg	Asp	Pro	Glu	Met	Gly	Gly	Lys	Pro	Arg
			405					410						415	
Arg	Lys	Asn	Pro	Gln	Glu	Gly	Leu	Tyr	Asn	Glu	Leu	Gln	Lys	Asp	Lys
		420					425					430			
Met	Ala	Glu	Ala	Tyr	Ser	Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg	Arg	Arg
	435					440					445				
Gly	Lys	Gly	His	Asp	Gly	Leu	Tyr	Gln	Gly	Leu	Ser	Thr	Ala	Thr	Lys
450					455					460					
Asp	Thr	Tyr	Asp	Ala	Leu	His	Met	Gln	Ala	Leu	Pro	Pro	Arg		
465					470					475					

<210> 34

<211> 488

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 34

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

225					230					235				240
Thr	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Glu	Asp	Pro	Pro	Thr
				245					250					255
Ala	Gly	Gly	Thr	Asn	Leu	Glu	Ile	Lys	Thr	Thr	Thr	Pro	Ala	Pro
			260					265					270	Arg
Pro	Pro	Thr	Pro	Ala	Pro	Thr	Ile	Ala	Ser	Gln	Pro	Leu	Ser	Leu
		275					280					285		Arg
Pro	Glu	Ala	Cys	Arg	Pro	Ala	Ala	Gly	Gly	Ala	Val	His	Thr	Arg
	290					295				300				Gly
Leu	Asp	Phe	Ala	Cys	Asp	Ile	Tyr	Ile	Trp	Ala	Pro	Leu	Ala	Gly
305					310					315				320
Cys	Gly	Val	Leu	Leu	Leu	Ser	Leu	Val	Ile	Thr	Leu	Tyr	Cys	Lys
			325						330					335
Gly	Arg	Lys	Lys	Leu	Leu	Tyr	Ile	Phe	Lys	Gln	Pro	Phe	Met	Arg
		340						345					350	Pro
Val	Gln	Thr	Thr	Gln	Glu	Glu	Asp	Gly	Cys	Ser	Cys	Arg	Phe	Pro
	355						360					365		Glu
Glu	Glu	Glu	Gly	Gly	Cys	Glu	Leu	Arg	Val	Lys	Phe	Ser	Arg	Ser
	370					375					380			Ala
Asp	Ala	Pro	Ala	Tyr	Lys	Gln	Gly	Gln	Asn	Gln	Leu	Tyr	Asn	Glu
385					390					395				400
Asn	Leu	Gly	Arg	Arg	Glu	Glu	Tyr	Asp	Val	Leu	Asp	Lys	Arg	Arg
			405						410				415	Gly
Arg	Asp	Pro	Glu	Met	Gly	Gly	Lys	Pro	Arg	Arg	Lys	Asn	Pro	Gln
		420						425					430	Glu
Gly	Leu	Tyr	Asn	Glu	Leu	Gln	Lys	Asp	Lys	Met	Ala	Glu	Ala	Tyr
	435						440				445			Ser
Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg	Arg	Arg	Gly	Lys	Gly	His	Asp
	450				455					460				Gly
Leu	Tyr	Gln	Gly	Leu	Ser	Thr	Ala	Thr	Lys	Asp	Thr	Tyr	Asp	Ala
465					470					475				480
His	Met	Gln	Ala	Leu	Pro	Pro	Arg							
				485										

<210> 35

<211> 488

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 35

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

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

<210> 36
 <211> 495
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 36

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

		355				360						365					
Cys	Ser	Cys	Arg	Phe	Pro	Glu	Glu	Glu	Glu	Gly	Gly	Cys	Glu	Leu	Arg		
	370					375					380						
Val	Lys	Phe	Ser	Arg	Ser	Ala	Asp	Ala	Pro	Ala	Tyr	Lys	Gln	Gly	Gln		
385					390					395					400		
Asn	Gln	Leu	Tyr	Asn	Glu	Leu	Asn	Leu	Gly	Arg	Arg	Glu	Glu	Tyr	Asp		
				405					410					415			
Val	Leu	Asp	Lys	Arg	Arg	Gly	Arg	Asp	Pro	Glu	Met	Gly	Gly	Lys	Pro		
			420					425				430					
Arg	Arg	Lys	Asn	Pro	Gln	Glu	Gly	Leu	Tyr	Asn	Glu	Leu	Gln	Lys	Asp		
		435					440					445					
Lys	Met	Ala	Glu	Ala	Tyr	Ser	Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg	Arg		
	450					455					460						
Arg	Gly	Lys	Gly	His	Asp	Gly	Leu	Tyr	Gln	Gly	Leu	Ser	Thr	Ala	Thr		
465					470					475					480		
Lys	Asp	Thr	Tyr	Asp	Ala	Leu	His	Met	Gln	Ala	Leu	Pro	Pro	Arg			
				485					490					495			

<210> 37
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 37
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15
 Ser Leu Val Ile Thr Leu Tyr Cys
 20

<210> 38
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 38
 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> 39
 <211> 112
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 39

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

<210> 40

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 40

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			
		35					40					45			

<210> 41

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 41

Val	Met	Ser	Val	Ala	Thr	Ile	Val	Ile	Val	Asp	Ile	Cys	Ile	Thr	Gly
1				5					10					15	
Gly	Leu	Leu	Leu	Leu	Val	Tyr	Tyr	Trp	Ser						
			20					25							

<210> 42
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 42
Met Gln Ser Gly Thr His Trp Arg Val Leu Gly Leu Cys Leu Leu Ser
1 5 10 15
Val Gly Val Trp Gly Gln
20

<210> 43
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 43
Asp Gly Asn Glu Glu Met Gly Gly Ile Thr Gln Thr Pro Tyr Lys Val
1 5 10 15
Ser Ile Ser Gly Thr Thr Val Ile Leu Thr Cys Pro Gln Tyr Pro Gly
20 25 30
Ser Glu Ile Leu Trp Gln His Asn Asp Lys Asn Ile Gly Gly Asp Glu
35 40 45
Asp Asp Lys Asn Ile Gly Ser Asp Glu Asp His Leu Ser Leu Lys Glu
50 55 60
Phe Ser Glu Leu Glu Gln Ser Gly Tyr Tyr Val Cys Tyr Pro Arg Gly
65 70 75 80
Ser Lys Pro Glu Asp Ala Asn Phe Tyr Leu Tyr Leu Arg Ala Arg Val
85 90 95
Cys Glu Asn Cys Met Glu Met Asp
100

<210> 44
<211> 207
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 44
Met Gln Ser Gly Thr His Trp Arg Val Leu Gly Leu Cys Leu Leu Ser
1 5 10 15
Val Gly Val Trp Gly Gln Asp Gly Asn Glu Glu Met Gly Gly Ile Thr
20 25 30
Gln Thr Pro Tyr Lys Val Ser Ile Ser Gly Thr Thr Val Ile Leu Thr

<223> Synthetic Construct

<400> 47

Ser Val Lys Ser Glu Asn Tyr Gly
1 5

<210> 48

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 48

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

<210> 49

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 49

Arg Ala Ser Lys Ser Val Ser Thr Ser Gly Tyr Ser Tyr Ile Tyr
1 5 10 15

<210> 50

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 50

Leu Ala Ser Ile Leu Glu Ser
1 5

<210> 51

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 51

Gln His Ser Arg Glu Leu Pro Trp Thr
1 5

<210> 52

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 52

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

<210> 53

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 53

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

100

105

110

<210> 54

<211> 496

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 54

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

Val	Ile	Thr	Leu	Tyr	Cys	Lys	Arg	Gly	Arg	Lys	Lys	Leu	Leu	Tyr	Ile
			340					345					350		
Phe	Lys	Gln	Pro	Phe	Met	Arg	Pro	Val	Gln	Thr	Thr	Gln	Glu	Glu	Asp
		355					360					365			
Gly	Cys	Ser	Cys	Arg	Phe	Pro	Glu	Glu	Glu	Gly	Gly	Cys	Glu	Leu	
		370				375					380				
Arg	Val	Lys	Phe	Ser	Arg	Ser	Ala	Asp	Ala	Pro	Ala	Tyr	Lys	Gln	Gly
385					390					395					400
Gln	Asn	Gln	Leu	Tyr	Asn	Glu	Leu	Asn	Leu	Gly	Arg	Arg	Glu	Glu	Tyr
			405					410					415		
Asp	Val	Leu	Asp	Lys	Arg	Arg	Gly	Arg	Asp	Pro	Glu	Met	Gly	Gly	Lys
			420					425					430		
Pro	Arg	Arg	Lys	Asn	Pro	Gln	Glu	Gly	Leu	Tyr	Asn	Glu	Leu	Gln	Lys
			435				440					445			
Asp	Lys	Met	Ala	Glu	Ala	Tyr	Ser	Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg
		450				455					460				
Arg	Arg	Gly	Lys	Gly	His	Asp	Gly	Leu	Tyr	Gln	Gly	Leu	Ser	Thr	Ala
465					470					475					480
Thr	Lys	Asp	Thr	Tyr	Asp	Ala	Leu	His	Met	Gln	Ala	Leu	Pro	Pro	Arg
			485					490						495	

<210> 55

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 55

Gly	Tyr	Thr	Phe	Thr	Asn	Tyr
1				5		

<210> 56

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 56

Asn	Thr	Asn	Thr	Gly	Glu
1				5	

<210> 57

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 57

Leu Gly Leu Tyr Tyr Asp Tyr Gly Tyr Tyr Ala Met
1 5 10

<210> 58

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 58

Arg Ala Ser Glu Ser Val Asp Ser Tyr Gly Asn
1 5 10

<210> 59

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 59

Leu Ala Ser Asn Leu Glu Ser
1 5

<210> 60

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 60

Gln Gln Asn Asn Glu Asp Pro Tyr Thr
1 5

<210> 61

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 61

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

<210> 62

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 62

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

<210> 63

<211> 493

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 63

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu

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

		435					440				445						
Ala	Glu	Ala	Tyr	Ser	Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg	Arg	Arg	Gly		
	450					455					460						
Lys	Gly	His	Asp	Gly	Leu	Tyr	Gln	Gly	Leu	Ser	Thr	Ala	Thr	Lys	Asp		
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Thr	Tyr	Asp	Ala	Leu	His	Met	Gln	Ala	Leu	Pro	Pro	Arg					
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<211> 456

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 64

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

Ile	Ser	Gly	Thr	Thr	Val	Ile	Leu	Thr	Cys	Pro	Gln	Tyr	Pro	Gly	Ser
	290					295					300				
Glu	Ile	Leu	Trp	Gln	His	Asn	Asp	Lys	Asn	Ile	Gly	Gly	Asp	Glu	Asp
305					310				315						320
Asp	Lys	Asn	Ile	Gly	Ser	Asp	Glu	Asp	His	Leu	Ser	Leu	Lys	Glu	Phe
				325					330						335
Ser	Glu	Leu	Glu	Gln	Ser	Gly	Tyr	Tyr	Val	Cys	Tyr	Pro	Arg	Gly	Ser
			340					345					350		
Lys	Pro	Glu	Asp	Ala	Asn	Phe	Tyr	Leu	Tyr	Leu	Arg	Ala	Arg	Val	Cys
		355				360					365				
Glu	Asn	Cys	Met	Glu	Met	Asp	Val	Met	Ser	Val	Ala	Thr	Ile	Val	Ile
	370					375				380					
Val	Asp	Ile	Cys	Ile	Thr	Gly	Gly	Leu	Leu	Leu	Leu	Val	Tyr	Tyr	Trp
385					390				395						400
Ser	Lys	Asn	Arg	Lys	Ala	Lys	Ala	Lys	Pro	Val	Thr	Arg	Gly	Ala	Gly
				405				410						415	
Ala	Gly	Gly	Arg	Gln	Arg	Gly	Gln	Asn	Lys	Glu	Arg	Pro	Pro	Pro	Val
			420				425					430			
Pro	Asn	Pro	Asp	Tyr	Glu	Pro	Ile	Arg	Lys	Gly	Gln	Arg	Asp	Leu	Tyr
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Ser	Gly	Leu	Asn	Gln	Arg	Arg	Ile								
	450					455									

<210> 65

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> misc_feature

<222> 3, 4, 5, 6, 7, 8

<223> n = A or T

<400> 65

ccnnnnnnngg