

SEQUENCE LISTING

<110> CHUGAI SEIYAKU KABUSHIKI KAISHA

<120> ANTI-C5 ANTIBODIES AND METHODS OF USE

<130> C1-A1517P

<150> JP 2015-247069

<151> 2015-12-18

<160> 150

<170> PatentIn version 3.5

<210> 1

<211> 121

<212> PRT

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<220>

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<400> 1

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

Leu	Ala	Val	Thr	Cys	Thr	Ala	Ser	Gly	Phe	Ser	Ser	Ser	Ser	Ser	Tyr
			20					25					30		

Tyr	Met	Cys	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			

Gly Cys Ile Tyr Thr Gly Ser Gly Ala Thr Tyr Tyr Ala Ser Trp Ala
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Thr Leu
 65 70 75 80

Gln Met Thr Ser Leu Thr Val Ala Asp Thr Ala Thr Tyr Phe Cys Ala
 85 90 95

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

Pro Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 2

<211> 117

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<220>

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<400> 2

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

Leu Thr Leu Thr Cys Lys Ala Ser Gly Ile Asp Phe Ser Asn Phe Tyr

20

25

30

Tyr Ile Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Asp Leu Ile
 35 40 45

Ala Cys Ile Tyr Thr Val Ser Gly Tyr Thr Tyr Tyr Ala Ser Trp Ala
 50 55 60

Lys Gly Arg Leu Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Thr Leu
 65 70 75 80

Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala
 85 90 95

Arg Asp Leu His Ala Gly Ile Thr Asn Leu Trp Gly Pro Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser
 115

<210> 3

<211> 122

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<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 3

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

Leu Ser Leu Thr Cys Thr Ala Ala Gly Leu Asp Phe Ser Ser Ser Tyr
 20 25 30

Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Ala Cys Ile Tyr Ala Gly Ser Ser Gly Ile Ile Tyr Tyr Ala Asn Trp
 50 55 60

Ala Lys Gly Arg Phe Thr Ile Ser Arg Pro Ser Ser Thr Thr Val Thr
 65 70 75 80

Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys
 85 90 95

Ala Thr Tyr Pro Thr Tyr Gly Asp Gly Gly His Ala Phe Asn Leu Trp
 100 105 110

Gly Pro Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 4

<211> 117

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<400> 4

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

Leu	Thr	Leu	Thr	Cys	Thr	Ala	Ser	Gly	Phe	Ser	Leu	Ser	Ser	Tyr	Tyr
			20					25					30		

Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	Gly
		35					40					45			

Met	Ile	Tyr	Gly	Ser	Gly	Ala	Thr	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
	50					55						60			

Arg	Phe	Thr	Ile	Ser	Lys	Thr	Ser	Ser	Thr	Thr	Val	Asp	Leu	Lys	Met
65					70					75				80	

Thr	Ser	Leu	Thr	Thr	Glu	Asp	Thr	Ala	Thr	Tyr	Phe	Cys	Ala	Arg	Gln
			85						90					95	

Ile	Tyr	Ser	Gly	Asp	Asn	Asn	Asp	Asn	Phe	Trp	Gly	Pro	Gly	Thr	Leu
			100					105						110	

Val	Thr	Val	Ser	Ser
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115

<210> 5

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<400> 5

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

Leu	Thr	Leu	Thr	Cys	Thr	Ala	Ser	Gly	Phe	Ser	Leu	Ser	Ser	Tyr	Tyr
		20						25					30		

Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	Gly
	35						40					45			

Met	Ile	Tyr	Gly	Ser	Gly	Ala	Thr	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
	50					55					60				

Arg	Phe	Thr	Ile	Ser	Lys	Thr	Ser	Ser	Thr	Thr	Val	Asp	Leu	Lys	Met
65				70					75					80	

Thr	Ser	Leu	Thr	Thr	Glu	Asp	Thr	Ala	Thr	Tyr	Phe	Cys	Ala	Arg	Gln
			85						90					95	

Ile Tyr Ser Gly Asp Asn Asn Asp Asn Phe Trp Gly Pro Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser
 115

<210> 6

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<400> 6

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

Leu Thr Leu Thr Cys Thr Val Ser Gly Leu Ser Leu Ser Asp Asn Thr
 20 25 30

Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
 35 40 45

Ile Ile Ser Phe Gly Gly Asp Ala Tyr Tyr Ala Ser Trp Ala Lys Gly
 50 55 60

Arg Phe Pro Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Arg Ile Thr

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

<210> 7
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 <220>
 <223> An artificially synthesized sequence

 <400> 7

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

 Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Thr Tyr Ala
 20 25 30

 Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
 35 40 45

Thr Ile Asp Thr Gly Asp Asn Ser Phe Tyr Ala Asn Trp Ala Lys Gly
 50 55 60

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
 65 70 75 80

Ser Pro Thr Ala Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Asn Asp
 85 90 95

Gly Ser Val Tyr Asn Leu Phe Asn Leu Trp Gly Pro Gly Thr Leu Val
 100 105 110

Thr Val Ser Ser
 115

<210> 8
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<220>
 <223> An artificially synthesized sequence

<400> 8

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

Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Leu Ser Gly Asn Ala

20 25 30

Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
35 40 45

Cys Ile Tyr Thr Gly Ser Asp Thr Thr Tyr Tyr Ala Thr Trp Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile
65 70 75 80

Ala Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly
85 90 95

Ser Gly Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 9

<211> 116

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 9

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

Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Thr Tyr Ala
 20 25 30

Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
 35 40 45

Thr Ile Asp Thr Gly Asp Asn Ser Phe Tyr Ala Asn Trp Ala Lys Gly
 50 55 60

Arg Phe Thr Ile Ser Arg Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
 65 70 75 80

Ser Pro Thr Ala Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Asn Asp
 85 90 95

Gly Ser Val Tyr Asn Leu Phe Asn Leu Trp Gly Pro Gly Thr Leu Val
 100 105 110

Thr Val Ser Ser
 115

<210> 10

<211> 123

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 10

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 Ser His Ser Ser
 20 25 30

Tyr Tyr Val Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 35 40 45

Val Gly Ala Ile Tyr Thr Gly Ser Gly Ala Thr Tyr Lys Ala Ser Trp
 50 55 60

Ala Lys Gly Arg Phe Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val
 65 70 75 80

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95

Cys Ala Ser Asp Gly Gly Tyr Asp Tyr Pro Thr His Ala Met His Tyr
 100 105 110

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

<210> 11

<211> 110

<212> PRT

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<220>

<223> An artificially synthesized sequence

<400> 11

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

Gly	Thr	Val	Thr	Ile	Lys	Cys	Gln	Ala	Ser	Gln	Asn	Ile	Gly	Ser	Asp
			20					25					30		

Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro	Pro	Arg	Leu	Leu	Ile
		35					40					45			

Tyr	Gly	Ala	Ser	Lys	Leu	Ala	Ser	Gly	Val	Ser	Ser	Arg	Phe	Ser	Gly
	50					55						60			

Ser	Gly	Ser	Gly	Lys	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Asp	Leu	Glu	Cys
65					70					75				80	

Ala	Asp	Ala	Val	Thr	Tyr	Tyr	Cys	Gln	Cys	Thr	Phe	Val	Gly	Ser	Ser
				85					90					95	

Tyr	Gly	Asn	Ala	Phe	Gly	Gly	Gly	Thr	Glu	Val	Val	Val	Lys
		100						105					110

<210> 12

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 12

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

Gly	Thr	Val	Thr	Ile	Lys	Cys	Gln	Ala	Ser	Gln	Asn	Ile	Tyr	Ser	Asn
			20					25					30		

Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Arg	Pro	Lys	Leu	Leu	Ile
		35						40				45			

Tyr	Gly	Ala	Ser	Asn	Leu	Glu	Ser	Gly	Val	Pro	Ser	Arg	Phe	Lys	Gly
	50						55				60				

Ser	Gly	Ser	Gly	Thr	Glu	Tyr	Thr	Leu	Thr	Ile	Ser	Asp	Leu	Glu	Cys
65						70				75				80	

Ala	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Gly	Tyr	Ser	Tyr	Ser	Asn
				85						90				95	

Val	Asp	Asp	Ala	Phe	Gly	Gly	Gly	Thr	Glu	Val	Val	Val	Lys
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100

105

110

<210> 13

<211> 112

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 13

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

Gly	Thr	Val	Thr	Ile	Asn	Cys	Gln	Ser	Ser	Gln	Ser	Val	Tyr	Ser	Ser
			20					25					30		

Asp	Tyr	Leu	Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro	Pro	Lys	Leu
		35					40					45			

Leu	Ile	Tyr	Glu	Ala	Ser	Lys	Leu	Ala	Ser	Gly	Val	Pro	Pro	Arg	Phe
	50					55					60				

Ser	Gly	Ser	Gly	Ser	Gly	Thr	Gln	Phe	Thr	Leu	Thr	Ile	Ser	Gly	Val
65					70					75				80	

Gln	Cys	Asp	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys	Gln	Gly	Thr	Tyr	Tyr	Ser
				85					90					95	

Ser Gly Trp Tyr Phe Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys
 100 105 110

<210> 14

<211> 110

<212> PRT

<213> Artificial sequence

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<400> 14

Ala Tyr Asp Met Thr Gln Thr Pro Ala Ser Val Glu Val Ala Val Gly
 1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Glu Ser Ile Ser Asn Trp
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Arg Pro Lys Leu Leu Ile
 35 40 45

Tyr Arg Ala Ser Thr Leu Ala Ser Gly Val Ser Ser Arg Phe Lys Gly
 50 55 60

Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Glu Cys
 65 70 75 80

Asp Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Asp Tyr Ser Ser Ser Asn

85

90

95

Val Asp Asn Thr Phe Gly Gly Gly Thr Lys Val Val Val Glu
 100 105 110

<210> 15

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 15

Ala Tyr Asp Met Thr Gln Thr Pro Ala Ser Val Glu Val Ala Val Gly
 1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Glu Ser Ile Ser Asn Trp
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Arg Pro Lys Leu Leu Ile
 35 40 45

Tyr Arg Ala Ser Thr Leu Ala Ser Gly Val Ser Ser Arg Phe Lys Gly
 50 55 60

Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Glu Cys
 65 70 75 80

Asp Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Asp Tyr Ser Ser Ser Asn
 85 90 95

Val Asp Asn Thr Phe Gly Gly Gly Thr Thr Val Val Val Glu
 100 105 110

<210> 16

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 16

Ala Tyr Asp Met Thr Gln Thr Pro Ala Ser Val Glu Val Ser Val Gly
 1 5 10 15

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Ser Ile Tyr Ser Ala
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45

Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Lys Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Asp Leu Glu Cys

65 70 75 80

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Tyr Tyr Ser Ser Thr Asn

 85 90 95

Val His Asn Ser Phe Gly Gly Gly Thr Thr Val Val Val Glu

 100 105 110

<210> 17

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 17

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

1 5 10 15

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Asn Ile Tyr Ser Ala

20 25 30

Leu Ser Trp Tyr Gln Gln Lys Pro Gly Leu Arg Pro Arg Leu Leu Ile

35 40 45

Tyr Tyr Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Lys Gly

50 55 60

Ser Arg Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
 65 70 75 80

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Tyr Tyr Asp Ile Asn Ser
 85 90 95

Val Asp Asn Thr Phe Gly Gly Gly Thr Lys Val Val Val Glu
 100 105 110

<210> 18

<211> 111

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 18

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

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Gln Asn Ile Tyr Ser Leu
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45

Tyr His Thr Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Arg Gly

50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65 70 75 80

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Cys Thr Ala Tyr Gly Ser Ser
85 90 95

Asp Val Gly Gly Thr Phe Gly Gly Gly Thr Thr Val Val Val Glu
100 105 110

<210> 19

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 19

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

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Asn Ile Tyr Ser Ala
20 25 30

Leu Ser Trp Tyr Gln Gln Lys Pro Gly Leu Arg Pro Arg Leu Leu Ile
35 40 45

Tyr Tyr Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Lys Gly
 50 55 60

Ser Arg Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
 65 70 75 80

Ala Asp Ala Ala Ser Tyr Tyr Cys Gln Gln Tyr Tyr Asp Ile Asn Ser
 85 90 95

Val Asp Asn Thr Phe Gly Gly Gly Thr Lys Val Val Val Glu
 100 105 110

<210> 20

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 20

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

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asn Ile Gly Ser Ser
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile

35

40

45

Tyr Gly Ala Ser Lys Thr His 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 Val Ala Thr Tyr Tyr Cys Gln Ser Thr Lys Val Gly Ser Ser
 85 90 95

Tyr Gly Asn His Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 21

<211> 117

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 21

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

Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Trp Asn Ser Gly Tyr
 20 25 30

Asp Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Ala Cys Ile Tyr Thr Gly Ser Ser Ala Asn Thr Ala Tyr Ala Asn Trp
 50 55 60

Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Thr
 65 70 75 80

Leu Gln Met Thr Gly Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys
 85 90 95

Ala Arg His Asp Asp Tyr Phe Phe Asp Leu Trp Gly Pro Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser
 115

<210> 22

<211> 115

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 22

Gln Ser Val Glu Glu Ser Gly Gly Arg Leu Val Thr Pro Gly Thr Pro

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

<210> 23

<211> 116

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 23

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

Leu	Thr	Leu	Thr	Cys	Thr	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Ser	Gly	Tyr
			20					25						30	

Tyr	Met	Cys	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			

Gly	Cys	Ile	Gly	Thr	Ile	Ser	Asp	Ser	Thr	Tyr	Tyr	Ala	Ser	Trp	Ala
		50				55						60			

Lys	Gly	Arg	Phe	Pro	Ile	Ser	Lys	Ala	Ser	Ser	Thr	Thr	Val	Thr	Leu
65						70				75					80

Gln	Met	Thr	Ser	Leu	Thr	Ala	Ala	Asp	Thr	Ala	Thr	Tyr	Phe	Cys	Ala
				85					90					95	

Arg	Asp	Pro	Tyr	Ser	Tyr	Gly	Asp	Leu	Trp	Gly	Pro	Gly	Thr	Leu	Val
			100					105					110		

Thr	Val	Ser	Ser
			115

<210> 24

<211> 125

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 24

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

Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser Ser Gly
20 25 30

Asn Trp Ile Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
35 40 45

Ile Ala Cys Ile Tyr Gly Gly Ser Val Gly Gly Thr Asp Tyr Ala Ser
50 55 60

Trp Ala Lys Gly Arg Phe Thr Val Ser Lys Thr Ser Ser Thr Thr Val
65 70 75 80

Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe
85 90 95

Cys Ala Arg Met Glu Asp Gly Tyr Gly Tyr Gly Tyr Asp Thr Tyr Phe

100 105 110

Lys Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 25

<211> 114

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 25

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

Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Ile Gly Asn Asn
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Lys Gly
50 55 60

Ser Arg Ser Gly Thr Glu Pro Thr Leu Thr Asn Thr Leu Thr Ile Ser
65 70 75 80

Gly Val Gln Cys Ala Asp Val Ala Thr Tyr Tyr Cys Gln Ser Gly Trp
 85 90 95

Tyr Gly Asn Ser Tyr Val Ala Ala Phe Gly Gly Gly Thr Glu Val Val
 100 105 110

Val Lys

<210> 26

<211> 112

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 26

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

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Asn Ile Tyr Ser Asn
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Arg Leu Ile
 35 40 45

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly

50 55 60

Ser Gly Tyr Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Gln Cys

65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Ala Asn Tyr Asp Ser Thr Ser
85 90 95

Ser Ser Phe Gly Asn Val Phe Gly Gly Gly Thr Glu Val Val Val Lys
100 105 110

<210>	27
<211>	110
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<213>	Artificial sequence

<220>
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<400> 27

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

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Gln Ser Ile Gly Thr Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
35 40 45

Tyr Arg Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Lys Gly
 50 55 60

Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
 65 70 75 80

Ala Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Gly Tyr Tyr Gly Phe Ser
 85 90 95

Tyr Gly Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys
 100 105 110

<210> 28

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 28

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

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Gln Ser Ile Thr Ser Trp
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Leu Gly Gln Pro Pro Lys Leu Leu Ile

35

40

45

Tyr Lys Ala Ser Thr Leu Ala Ser Gly Val Ser Ser Arg Phe Lys Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
 65 70 75 80

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gly Tyr Tyr Asp Ser Ser Thr
 85 90 95

Ser Ser Tyr Val Phe Gly Gly Gly Thr Glu Val Val Val Lys
 100 105 110

<210> 29

<211> 448

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 29

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Ser Asn Tyr
 20 25 30

Trp Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Glu Tyr Thr Glu Asn Phe
 50 55 60

Lys Asp Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Tyr Phe Phe Gly Ser Ser Pro Asn Trp Tyr Phe Asp Val Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
 115 120 125

Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr
 130 135 140

Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
 145 150 155 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
 165 170 175

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
 180 185 190

Val Pro Ser Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp
 195 200 205

His Lys Pro Ser Asn Thr Lys Val Asp Lys Thr Val Glu Arg Lys Cys
 210 215 220

Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser
 225 230 235 240

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 245 250 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro
 260 265 270

Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 275 280 285

Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val
 290 295 300

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
 305 310 315 320

Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr
 325 330 335

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
 340 345 350

Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
 355 360 365

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
 370 375 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
 385 390 395 400

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser
 405 410 415

Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
 420 425 430

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

<210> 30

<211> 214

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 30

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

Asp Arg Val Thr Ile Thr Cys Gly Ala Ser Glu Asn Ile Tyr Gly Ala
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Gly Ala Thr Asn Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Asn Val Leu Asn Thr Pro Leu
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly

115

120

125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

Phe Asn Arg Gly Glu Cys
 210

<210> 31

<211> 122

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 31

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Ser Asn Tyr
 20 25 30

Trp Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Glu Tyr Thr Glu Asn Phe
 50 55 60

Lys Asp Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Tyr Phe Phe Gly Ser Ser Pro Asn Trp Tyr Phe Asp Val Trp
 100 105 110

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

<210> 32

<211> 107

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 32

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

Asp	Arg	Val	Thr	Ile	Thr	Cys	Gly	Ala	Ser	Glu	Asn	Ile	Tyr	Gly	Ala
			20					25						30	

Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
			35					40					45		

Tyr	Gly	Ala	Thr	Asn	Leu	Ala	Asp	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
		50				55						60			

Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75					80

Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Asn	Val	Leu	Asn	Thr	Pro	Leu
				85						90				95	

Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100							105

<210> 33

<211> 325

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 33

Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Cys	Ser	Arg
1				5					10					15	

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

Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser
		35					40					45			

Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser
	50						55					60			

Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Lys	Thr
65					70					75					80

Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
				85						90				95	

Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro
				100				105						110	

Glu Phe Arg Gly Gly Pro Lys Val Phe Leu Phe Pro Pro Lys Pro Lys
 115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
 145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
 165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
 225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
 290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 305 310 315 320

Leu Ser Leu Ser Leu
 325

<210> 34

<211> 325

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 34

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
 1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr

20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
100 105 110

Glu Phe Arg Gly Gly Pro Lys Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Tyr Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe

165

170

175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
 225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
 290 295 300

Cys Ser Val Met His Glu Ala Leu His Tyr His Val Thr Gln Lys Ser

305 310 315 320

Leu Ser Leu Ser Leu
325

<210> 35

<211> 325

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 35

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
 100 105 110

Glu Phe Arg Gly Gly Pro Lys Val Phe Leu Phe Pro Pro Lys Pro Lys
 115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
 145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
 165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
 225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 275 280 285

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
 290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 305 310 315 320

Leu Ser Leu Ser Pro
 325

<210> 36

<211> 107

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 36

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Cys
 50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

<210> 37

<211> 107

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 37

Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
1				5					10					15	

Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
			20					25					30		

Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
		35					40				45				

Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
	50					55					60				

Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
65					70					75				80	

Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
			85						90					95	

Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys
			100					105		

<210> 38

<211> 107

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 38

Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
1				5					10					15	

Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
			20					25					30		

Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
		35					40				45				

Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
	50					55					60				

Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
65					70					75				80	

Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
				85					90					95	

Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys
			100					105		

<210> 39

<211> 1676

<212> PRT

<213> Homo sapiens

<400> 39

Met Gly Leu Leu Gly Ile Leu Cys Phe Leu Ile Phe Leu Gly Lys Thr
 1 5 10 15

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

Val Gly Ala Ser Glu Asn Ile Val Ile Gln Val Tyr Gly Tyr Thr Glu
 35 40 45

Ala Phe Asp Ala Thr Ile Ser Ile Lys Ser Tyr Pro Asp Lys Lys Phe
 50 55 60

Ser Tyr Ser Ser Gly His Val His Leu Ser Ser Glu Asn Lys Phe Gln
 65 70 75 80

Asn Ser Ala Ile Leu Thr Ile Gln Pro Lys Gln Leu Pro Gly Gly Gln
 85 90 95

Asn Pro Val Ser Tyr Val Tyr Leu Glu Val Val Ser Lys His Phe Ser
 100 105 110

Lys Ser Lys Arg Met Pro Ile Thr Tyr Asp Asn Gly Phe Leu Phe Ile
 115 120 125

His Thr Asp Lys Pro Val Tyr Thr Pro Asp Gln Ser Val Lys Val Arg
 130 135 140

Val Tyr Ser Leu Asn Asp Asp Leu Lys Pro Ala Lys Arg Glu Thr Val
 145 150 155 160

Leu Thr Phe Ile Asp Pro Glu Gly Ser Glu Val Asp Met Val Glu Glu
 165 170 175

Ile Asp His Ile Gly Ile Ile Ser Phe Pro Asp Phe Lys Ile Pro Ser
 180 185 190

Asn Pro Arg Tyr Gly Met Trp Thr Ile Lys Ala Lys Tyr Lys Glu Asp
 195 200 205

Phe Ser Thr Thr Gly Thr Ala Tyr Phe Glu Val Lys Glu Tyr Val Leu
 210 215 220

Pro His Phe Ser Val Ser Ile Glu Pro Glu Tyr Asn Phe Ile Gly Tyr
 225 230 235 240

Lys Asn Phe Lys Asn Phe Glu Ile Thr Ile Lys Ala Arg Tyr Phe Tyr
 245 250 255

Asn Lys Val Val Thr Glu Ala Asp Val Tyr Ile Thr Phe Gly Ile Arg
 260 265 270

Glu Asp Leu Lys Asp Asp Gln Lys Glu Met Met Gln Thr Ala Met Gln
 275 280 285

Asn Thr Met Leu Ile Asn Gly Ile Ala Gln Val Thr Phe Asp Ser Glu
 290 295 300

Thr Ala Val Lys Glu Leu Ser Tyr Tyr Ser Leu Glu Asp Leu Asn Asn
 305 310 315 320

Lys Tyr Leu Tyr Ile Ala Val Thr Val Ile Glu Ser Thr Gly Gly Phe
 325 330 335

Ser Glu Glu Ala Glu Ile Pro Gly Ile Lys Tyr Val Leu Ser Pro Tyr
 340 345 350

Lys Leu Asn Leu Val Ala Thr Pro Leu Phe Leu Lys Pro Gly Ile Pro
 355 360 365

Tyr Pro Ile Lys Val Gln Val Lys Asp Ser Leu Asp Gln Leu Val Gly
 370 375 380

Gly Val Pro Val Thr Leu Asn Ala Gln Thr Ile Asp Val Asn Gln Glu
 385 390 395 400

Thr Ser Asp Leu Asp Pro Ser Lys Ser Val Thr Arg Val Asp Asp Gly
 405 410 415

Val Ala Ser Phe Val Leu Asn Leu Pro Ser Gly Val Thr Val Leu Glu
 420 425 430

Phe Asn Val Lys Thr Asp Ala Pro Asp Leu Pro Glu Glu Asn Gln Ala
 435 440 445

Arg Glu Gly Tyr Arg Ala Ile Ala Tyr Ser Ser Leu Ser Gln Ser Tyr
 450 455 460

Leu Tyr Ile Asp Trp Thr Asp Asn His Lys Ala Leu Leu Val Gly Glu
 465 470 475 480

His Leu Asn Ile Ile Val Thr Pro Lys Ser Pro Tyr Ile Asp Lys Ile
 485 490 495

Thr His Tyr Asn Tyr Leu Ile Leu Ser Lys Gly Lys Ile Ile His Phe
 500 505 510

Gly Thr Arg Glu Lys Phe Ser Asp Ala Ser Tyr Gln Ser Ile Asn Ile
 515 520 525

Pro Val Thr Gln Asn Met Val Pro Ser Ser Arg Leu Leu Val Tyr Tyr
 530 535 540

Ile Val Thr Gly Glu Gln Thr Ala Glu Leu Val Ser Asp Ser Val Trp
 545 550 555 560

Leu Asn Ile Glu Glu Lys Cys Gly Asn Gln Leu Gln Val His Leu Ser
 565 570 575

Pro Asp Ala Asp Ala Tyr Ser Pro Gly Gln Thr Val Ser Leu Asn Met
 580 585 590

Ala Thr Gly Met Asp Ser Trp Val Ala Leu Ala Ala Val Asp Ser Ala
 595 600 605

Val Tyr Gly Val Gln Arg Gly Ala Lys Lys Pro Leu Glu Arg Val Phe
 610 615 620

Gln Phe Leu Glu Lys Ser Asp Leu Gly Cys Gly Ala Gly Gly Gly Leu
 625 630 635 640

Asn Asn Ala Asn Val Phe His Leu Ala Gly Leu Thr Phe Leu Thr Asn
 645 650 655

Ala Asn Ala Asp Asp Ser Gln Glu Asn Asp Glu Pro Cys Lys Glu Ile
 660 665 670

Leu Arg Pro Arg Arg Thr Leu Gln Lys Lys Ile Glu Glu Ile Ala Ala
 675 680 685

Lys Tyr Lys His Ser Val Val Lys Lys Cys Cys Tyr Asp Gly Ala Cys
 690 695 700

Val Asn Asn Asp Glu Thr Cys Glu Gln Arg Ala Ala Arg Ile Ser Leu
 705 710 715 720

Gly Pro Arg Cys Ile Lys Ala Phe Thr Glu Cys Cys Val Val Ala Ser
 725 730 735

Gln Leu Arg Ala Asn Ile Ser His Lys Asp Met Gln Leu Gly Arg Leu
 740 745 750

His Met Lys Thr Leu Leu Pro Val Ser Lys Pro Glu Ile Arg Ser Tyr
 755 760 765

Phe Pro Glu Ser Trp Leu Trp Glu Val His Leu Val Pro Arg Arg Lys
 770 775 780

Gln Leu Gln Phe Ala Leu Pro Asp Ser Leu Thr Thr Trp Glu Ile Gln
 785 790 795 800

Gly Val Gly Ile Ser Asn Thr Gly Ile Cys Val Ala Asp Thr Val Lys
 805 810 815

Ala Lys Val Phe Lys Asp Val Phe Leu Glu Met Asn Ile Pro Tyr Ser
 820 825 830

Val Val Arg Gly Glu Gln Ile Gln Leu Lys Gly Thr Val Tyr Asn Tyr
 835 840 845

Arg Thr Ser Gly Met Gln Phe Cys Val Lys Met Ser Ala Val Glu Gly
 850 855 860

Ile Cys Thr Ser Glu Ser Pro Val Ile Asp His Gln Gly Thr Lys Ser
 865 870 875 880

Ser Lys Cys Val Arg Gln Lys Val Glu Gly Ser Ser Ser His Leu Val
 885 890 895

Thr Phe Thr Val Leu Pro Leu Glu Ile Gly Leu His Asn Ile Asn Phe
 900 905 910

Ser Leu Glu Thr Trp Phe Gly Lys Glu Ile Leu Val Lys Thr Leu Arg
 915 920 925

Val Val Pro Glu Gly Val Lys Arg Glu Ser Tyr Ser Gly Val Thr Leu
 930 935 940

Asp Pro Arg Gly Ile Tyr Gly Thr Ile Ser Arg Arg Lys Glu Phe Pro
 945 950 955 960

Tyr Arg Ile Pro Leu Asp Leu Val Pro Lys Thr Glu Ile Lys Arg Ile
 965 970 975

Leu Ser Val Lys Gly Leu Leu Val Gly Glu Ile Leu Ser Ala Val Leu
 980 985 990

Ser Gln Glu Gly Ile Asn Ile Leu Thr His Leu Pro Lys Gly Ser Ala
 995 1000 1005

Glu Ala Glu Leu Met Ser Val Val Pro Val Phe Tyr Val Phe His
 1010 1015 1020

Tyr Leu Glu Thr Gly Asn His Trp Asn Ile Phe His Ser Asp Pro
 1025 1030 1035

Leu Ile Glu Lys Gln Lys Leu Lys Lys Lys Leu Lys Glu Gly Met
 1040 1045 1050

Leu Ser Ile Met Ser Tyr Arg Asn Ala Asp Tyr Ser Tyr Ser Val
 1055 1060 1065

Trp Lys Gly Gly Ser Ala Ser Thr Trp Leu Thr Ala Phe Ala Leu
 1070 1075 1080

Arg Val Leu Gly Gln Val Asn Lys Tyr Val Glu Gln Asn Gln Asn
 1085 1090 1095

Ser Ile Cys Asn Ser Leu Leu Trp Leu Val Glu Asn Tyr Gln Leu
 1100 1105 1110

Asp Asn Gly Ser Phe Lys Glu Asn Ser Gln Tyr Gln Pro Ile Lys
 1115 1120 1125

Leu Gln Gly Thr Leu Pro Val Glu Ala Arg Glu Asn Ser Leu Tyr
 1130 1135 1140

Leu Thr Ala Phe Thr Val Ile Gly Ile Arg Lys Ala Phe Asp Ile
 1145 1150 1155

Cys Pro Leu Val Lys Ile Asp Thr Ala Leu Ile Lys Ala Asp Asn
 1160 1165 1170

Phe Leu Leu Glu Asn Thr Leu Pro Ala Gln Ser Thr Phe Thr Leu
 1175 1180 1185

Ala Ile Ser Ala Tyr Ala Leu Ser Leu Gly Asp Lys Thr His Pro
 1190 1195 1200

Gln Phe Arg Ser Ile Val Ser Ala Leu Lys Arg Glu Ala Leu Val
 1205 1210 1215

Lys Gly Asn Pro Pro Ile Tyr Arg Phe Trp Lys Asp Asn Leu Gln
 1220 1225 1230

His Lys Asp Ser Ser Val Pro Asn Thr Gly Thr Ala Arg Met Val
 1235 1240 1245

Glu Thr Thr Ala Tyr Ala Leu Leu Thr Ser Leu Asn Leu Lys Asp
 1250 1255 1260

Ile	Asn	Tyr	Val	Asn	Pro	Val	Ile	Lys	Trp	Leu	Ser	Glu	Glu	Gln
1265							1270					1275		

Arg	Tyr	Gly	Gly	Gly	Phe	Tyr	Ser	Thr	Gln	Asp	Thr	Ile	Asn	Ala
1280							1285					1290		

Ile	Glu	Gly	Leu	Thr	Glu	Tyr	Ser	Leu	Leu	Val	Lys	Gln	Leu	Arg
1295							1300					1305		

Leu	Ser	Met	Asp	Ile	Asp	Val	Ser	Tyr	Lys	His	Lys	Gly	Ala	Leu
1310							1315					1320		

His	Asn	Tyr	Lys	Met	Thr	Asp	Lys	Asn	Phe	Leu	Gly	Arg	Pro	Val
1325							1330					1335		

Glu	Val	Leu	Leu	Asn	Asp	Asp	Leu	Ile	Val	Ser	Thr	Gly	Phe	Gly
1340							1345					1350		

Ser	Gly	Leu	Ala	Thr	Val	His	Val	Thr	Thr	Val	Val	His	Lys	Thr
1355							1360					1365		

Ser	Thr	Ser	Glu	Glu	Val	Cys	Ser	Phe	Tyr	Leu	Lys	Ile	Asp	Thr
1370							1375					1380		

Gln	Asp	Ile	Glu	Ala	Ser	His	Tyr	Arg	Gly	Tyr	Gly	Asn	Ser	Asp
1385							1390					1395		

Tyr Lys Arg Ile Val Ala Cys Ala Ser Tyr Lys Pro Ser Arg Glu
 1400 1405 1410

Glu Ser Ser Ser Gly Ser Ser His Ala Val Met Asp Ile Ser Leu
 1415 1420 1425

Pro Thr Gly Ile Ser Ala Asn Glu Glu Asp Leu Lys Ala Leu Val
 1430 1435 1440

Glu Gly Val Asp Gln Leu Phe Thr Asp Tyr Gln Ile Lys Asp Gly
 1445 1450 1455

His Val Ile Leu Gln Leu Asn Ser Ile Pro Ser Ser Asp Phe Leu
 1460 1465 1470

Cys Val Arg Phe Arg Ile Phe Glu Leu Phe Glu Val Gly Phe Leu
 1475 1480 1485

Ser Pro Ala Thr Phe Thr Val Tyr Glu Tyr His Arg Pro Asp Lys
 1490 1495 1500

Gln Cys Thr Met Phe Tyr Ser Thr Ser Asn Ile Lys Ile Gln Lys
 1505 1510 1515

Val Cys Glu Gly Ala Ala Cys Lys Cys Val Glu Ala Asp Cys Gly
 1520 1525 1530

Gln Met	Gln Glu Glu Leu Asp	Leu Thr Ile Ser Ala	Glu Thr Arg
1535	1540	1545	

Lys Gln	Thr Ala Cys Lys Pro	Glu Ile Ala Tyr Ala	Tyr Lys Val
1550	1555	1560	

Ser Ile	Thr Ser Ile Thr Val	Glu Asn Val Phe Val	Lys Tyr Lys
1565	1570	1575	

Ala Thr	Leu Leu Asp Ile Tyr	Lys Thr Gly Glu Ala	Val Ala Glu
1580	1585	1590	

Lys Asp	Ser Glu Ile Thr Phe	Ile Lys Lys Val Thr	Cys Thr Asn
1595	1600	1605	

Ala Glu	Leu Val Lys Gly Arg	Gln Tyr Leu Ile Met	Gly Lys Glu
1610	1615	1620	

Ala Leu	Gln Ile Lys Tyr Asn	Phe Ser Phe Arg Tyr	Ile Tyr Pro
1625	1630	1635	

Leu Asp	Ser Leu Thr Trp Ile	Glu Tyr Trp Pro Arg	Asp Thr Thr
1640	1645	1650	

Cys Ser	Ser Cys Gln Ala Phe	Leu Ala Asn Leu Asp	Glu Phe Ala
1655	1660	1665	

Glu Asp Ile Phe Leu Asn Gly Cys
 1670 1675

<210> 40

<211> 673

<212> PRT

<213> Homo sapiens

<400> 40

Met Gly Leu Leu Gly Ile Leu Cys Phe Leu Ile Phe Leu Gly Lys Thr
 1 5 10 15

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

Val Gly Ala Ser Glu Asn Ile Val Ile Gln Val Tyr Gly Tyr Thr Glu
 35 40 45

Ala Phe Asp Ala Thr Ile Ser Ile Lys Ser Tyr Pro Asp Lys Lys Phe
 50 55 60

Ser Tyr Ser Ser Gly His Val His Leu Ser Ser Glu Asn Lys Phe Gln
 65 70 75 80

Asn Ser Ala Ile Leu Thr Ile Gln Pro Lys Gln Leu Pro Gly Gly Gln
 85 90 95

Asn Pro Val Ser Tyr Val Tyr Leu Glu Val Val Ser Lys His Phe Ser
 100 105 110

Lys Ser Lys Arg Met Pro Ile Thr Tyr Asp Asn Gly Phe Leu Phe Ile
 115 120 125

His Thr Asp Lys Pro Val Tyr Thr Pro Asp Gln Ser Val Lys Val Arg
 130 135 140

Val Tyr Ser Leu Asn Asp Asp Leu Lys Pro Ala Lys Arg Glu Thr Val
 145 150 155 160

Leu Thr Phe Ile Asp Pro Glu Gly Ser Glu Val Asp Met Val Glu Glu
 165 170 175

Ile Asp His Ile Gly Ile Ile Ser Phe Pro Asp Phe Lys Ile Pro Ser
 180 185 190

Asn Pro Arg Tyr Gly Met Trp Thr Ile Lys Ala Lys Tyr Lys Glu Asp
 195 200 205

Phe Ser Thr Thr Gly Thr Ala Tyr Phe Glu Val Lys Glu Tyr Val Leu
 210 215 220

Pro His Phe Ser Val Ser Ile Glu Pro Glu Tyr Asn Phe Ile Gly Tyr
 225 230 235 240

Lys Asn Phe Lys Asn Phe Glu Ile Thr Ile Lys Ala Arg Tyr Phe Tyr
 245 250 255

Asn Lys Val Val Thr Glu Ala Asp Val Tyr Ile Thr Phe Gly Ile Arg
 260 265 270

Glu Asp Leu Lys Asp Asp Gln Lys Glu Met Met Gln Thr Ala Met Gln
 275 280 285

Asn Thr Met Leu Ile Asn Gly Ile Ala Gln Val Thr Phe Asp Ser Glu
 290 295 300

Thr Ala Val Lys Glu Leu Ser Tyr Tyr Ser Leu Glu Asp Leu Asn Asn
 305 310 315 320

Lys Tyr Leu Tyr Ile Ala Val Thr Val Ile Glu Ser Thr Gly Gly Phe
 325 330 335

Ser Glu Glu Ala Glu Ile Pro Gly Ile Lys Tyr Val Leu Ser Pro Tyr
 340 345 350

Lys Leu Asn Leu Val Ala Thr Pro Leu Phe Leu Lys Pro Gly Ile Pro
 355 360 365

Tyr Pro Ile Lys Val Gln Val Lys Asp Ser Leu Asp Gln Leu Val Gly
 370 375 380

Gly Val Pro Val Thr Leu Asn Ala Gln Thr Ile Asp Val Asn Gln Glu
 385 390 395 400

Thr Ser Asp Leu Asp Pro Ser Lys Ser Val Thr Arg Val Asp Asp Gly
 405 410 415

Val Ala Ser Phe Val Leu Asn Leu Pro Ser Gly Val Thr Val Leu Glu
 420 425 430

Phe Asn Val Lys Thr Asp Ala Pro Asp Leu Pro Glu Glu Asn Gln Ala
 435 440 445

Arg Glu Gly Tyr Arg Ala Ile Ala Tyr Ser Ser Leu Ser Gln Ser Tyr
 450 455 460

Leu Tyr Ile Asp Trp Thr Asp Asn His Lys Ala Leu Leu Val Gly Glu
 465 470 475 480

His Leu Asn Ile Ile Val Thr Pro Lys Ser Pro Tyr Ile Asp Lys Ile
 485 490 495

Thr His Tyr Asn Tyr Leu Ile Leu Ser Lys Gly Lys Ile Ile His Phe
 500 505 510

Gly Thr Arg Glu Lys Phe Ser Asp Ala Ser Tyr Gln Ser Ile Asn Ile
 515 520 525

Pro Val Thr Gln Asn Met Val Pro Ser Ser Arg Leu Leu Val Tyr Tyr
 530 535 540

Ile Val Thr Gly Glu Gln Thr Ala Glu Leu Val Ser Asp Ser Val Trp
 545 550 555 560

Leu Asn Ile Glu Glu Lys Cys Gly Asn Gln Leu Gln Val His Leu Ser
 565 570 575

Pro Asp Ala Asp Ala Tyr Ser Pro Gly Gln Thr Val Ser Leu Asn Met
 580 585 590

Ala Thr Gly Met Asp Ser Trp Val Ala Leu Ala Ala Val Asp Ser Ala
 595 600 605

Val Tyr Gly Val Gln Arg Gly Ala Lys Lys Pro Leu Glu Arg Val Phe
 610 615 620

Gln Phe Leu Glu Lys Ser Asp Leu Gly Cys Gly Ala Gly Gly Gly Leu
 625 630 635 640

Asn Asn Ala Asn Val Phe His Leu Ala Gly Leu Thr Phe Leu Thr Asn
 645 650 655

Ala Asn Ala Asp Asp Ser Gln Glu Asn Asp Glu Pro Cys Lys Glu Ile
 660 665 670

Leu

<210> 41

<211> 105

<212> PRT

<213> Homo sapiens

<400> 41

Glu	Gln	Thr	Tyr	Val	Ile	Ser	Ala	Pro	Lys	Ile	Phe	Arg	Val	Gly	Ala
1				5					10					15	

Ser	Glu	Asn	Ile	Val	Ile	Gln	Val	Tyr	Gly	Tyr	Thr	Glu	Ala	Phe	Asp
		20						25						30	

Ala	Thr	Ile	Ser	Ile	Lys	Ser	Tyr	Pro	Asp	Lys	Lys	Phe	Ser	Tyr	Ser
	35						40					45			

Ser	Gly	His	Val	His	Leu	Ser	Ser	Glu	Asn	Lys	Phe	Gln	Asn	Ser	Ala
	50					55					60				

Ile	Leu	Thr	Ile	Gln	Pro	Lys	Gln	Leu	Pro	Gly	Gly	Gln	Asn	Pro	Val
65					70					75					80

Ser	Tyr	Val	Tyr	Leu	Glu	Val	Val	Ser	Lys	His	Phe	Ser	Lys	Ser	Lys
				85					90					95	

Arg Met Pro Ile Thr Tyr Asp Asn Gly
 100 105

<210> 42

<211> 101

<212> PRT

<213> Homo sapiens

<400> 42

Phe Leu Phe Ile His Thr Asp Lys Pro Val Tyr Thr Pro Asp Gln Ser
 1 5 10 15

Val Lys Val Arg Val Tyr Ser Leu Asn Asp Asp Leu Lys Pro Ala Lys
 20 25 30

Arg Glu Thr Val Leu Thr Phe Ile Asp Pro Glu Gly Ser Glu Val Asp
 35 40 45

Met Val Glu Glu Ile Asp His Ile Gly Ile Ile Ser Phe Pro Asp Phe
 50 55 60

Lys Ile Pro Ser Asn Pro Arg Tyr Gly Met Trp Thr Ile Lys Ala Lys
 65 70 75 80

Tyr Lys Glu Asp Phe Ser Thr Thr Gly Thr Ala Tyr Phe Glu Val Lys
 85 90 95

Glu Tyr Val Leu Pro

100

<210> 43

<211> 225

<212> PRT

<213> Homo sapiens

<400> 43

Met Gly Leu Leu Gly Ile Leu Cys Phe Leu Ile Phe Leu Gly Lys Thr
 1 5 10 15

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

Val Gly Ala Ser Glu Asn Ile Val Ile Gln Val Tyr Gly Tyr Thr Glu
 35 40 45

Ala Phe Asp Ala Thr Ile Ser Ile Lys Ser Tyr Pro Asp Lys Lys Phe
 50 55 60

Ser Tyr Ser Ser Gly His Val His Leu Ser Ser Glu Asn Lys Phe Gln
 65 70 75 80

Asn Ser Ala Ile Leu Thr Ile Gln Pro Lys Gln Leu Pro Gly Gly Gln
 85 90 95

Asn Pro Val Ser Tyr Val Tyr Leu Glu Val Val Ser Lys His Phe Ser
 100 105 110

Lys Ser Lys Arg Met Pro Ile Thr Tyr Asp Asn Gly Phe Leu Phe Ile
 115 120 125

His Thr Asp Lys Pro Val Tyr Thr Pro Asp Gln Ser Val Lys Val Arg
 130 135 140

Val Tyr Ser Leu Asn Asp Asp Leu Lys Pro Ala Lys Arg Glu Thr Val
 145 150 155 160

Leu Thr Phe Ile Asp Pro Glu Gly Ser Glu Val Asp Met Val Glu Glu
 165 170 175

Ile Asp His Ile Gly Ile Ile Ser Phe Pro Asp Phe Lys Ile Pro Ser
 180 185 190

Asn Pro Arg Tyr Gly Met Trp Thr Ile Lys Ala Lys Tyr Lys Glu Asp
 195 200 205

Phe Ser Thr Thr Gly Thr Ala Tyr Phe Glu Val Lys Glu Tyr Val Leu
 210 215 220

Pro
 225

<210> 44

<211> 1676

<212> PRT

<213> *Macaca fascicularis*

<400> 44

Met	Gly	Leu	Leu	Gly	Ile	Leu	Cys	Phe	Leu	Ile	Phe	Leu	Gly	Lys	Thr
1			5						10					15	

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

Val	Gly	Ala	Ser	Glu	Asn	Ile	Val	Ile	Gln	Val	Tyr	Gly	Tyr	Thr	Glu
		35				40						45			

Ala	Phe	Asp	Ala	Thr	Ile	Ser	Ile	Lys	Ser	Tyr	Pro	Asp	Lys	Lys	Phe
	50					55				60					

Ser	Tyr	Ser	Ser	Gly	His	Val	His	Leu	Ser	Ser	Glu	Asn	Lys	Phe	Gln
65				70					75					80	

Asn	Ser	Ala	Val	Leu	Thr	Ile	Gln	Pro	Lys	Gln	Leu	Pro	Gly	Gly	Gln
			85					90						95	

Asn	Gln	Val	Ser	Tyr	Val	Tyr	Leu	Glu	Val	Val	Ser	Lys	His	Phe	Ser
		100						105					110		

Lys	Ser	Lys	Lys	Ile	Pro	Ile	Thr	Tyr	Asp	Asn	Gly	Phe	Leu	Phe	Ile
		115					120					125			

His Thr Asp Lys Pro Val Tyr Thr Pro Asp Gln Ser Val Lys Val Arg
 130 135 140

Val Tyr Ser Leu Asn Asp Asp Leu Lys Pro Ala Lys Arg Glu Thr Val
 145 150 155 160

Leu Thr Phe Ile Asp Pro Glu Gly Ser Glu Ile Asp Met Val Glu Glu
 165 170 175

Ile Asp His Ile Gly Ile Ile Ser Phe Pro Asp Phe Lys Ile Pro Ser
 180 185 190

Asn Pro Arg Tyr Gly Met Trp Thr Ile Gln Ala Lys Tyr Lys Glu Asp
 195 200 205

Phe Ser Thr Thr Gly Thr Ala Phe Phe Glu Val Lys Glu Tyr Val Leu
 210 215 220

Pro His Phe Ser Val Ser Val Glu Pro Glu Ser Asn Phe Ile Gly Tyr
 225 230 235 240

Lys Asn Phe Lys Asn Phe Glu Ile Thr Ile Lys Ala Arg Tyr Phe Tyr
 245 250 255

Asn Lys Val Val Thr Glu Ala Asp Val Tyr Ile Thr Phe Gly Ile Arg
 260 265 270

Glu Asp Leu Lys Asp Asp Gln Lys Glu Met Met Gln Thr Ala Met Gln
 275 280 285

Asn Thr Met Leu Ile Asn Gly Ile Ala Glu Val Thr Phe Asp Ser Glu
 290 295 300

Thr Ala Val Lys Glu Leu Ser Tyr Tyr Ser Leu Glu Asp Leu Asn Asn
 305 310 315 320

Lys Tyr Leu Tyr Ile Ala Val Thr Val Ile Glu Ser Thr Gly Gly Phe
 325 330 335

Ser Glu Glu Ala Glu Ile Pro Gly Ile Lys Tyr Val Leu Ser Pro Tyr
 340 345 350

Lys Leu Asn Leu Val Ala Thr Pro Leu Phe Leu Lys Pro Gly Ile Pro
 355 360 365

Tyr Ser Ile Lys Val Gln Val Lys Asp Ala Leu Asp Gln Leu Val Gly
 370 375 380

Gly Val Pro Val Thr Leu Asn Ala Gln Thr Ile Asp Val Asn Gln Glu
 385 390 395 400

Thr Ser Asp Leu Glu Pro Arg Lys Ser Val Thr Arg Val Asp Asp Gly
 405 410 415

Val Ala Ser Phe Val Val Asn Leu Pro Ser Gly Val Thr Val Leu Glu
 420 425 430

Phe Asn Val Lys Thr Asp Ala Pro Asp Leu Pro Asp Glu Asn Gln Ala
 435 440 445

Arg Glu Gly Tyr Arg Ala Ile Ala Tyr Ser Ser Leu Ser Gln Ser Tyr
 450 455 460

Leu Tyr Ile Asp Trp Thr Asp Asn His Lys Ala Leu Leu Val Gly Glu
 465 470 475 480

Tyr Leu Asn Ile Ile Val Thr Pro Lys Ser Pro Tyr Ile Asp Lys Ile
 485 490 495

Thr His Tyr Asn Tyr Leu Ile Leu Ser Lys Gly Lys Ile Ile His Phe
 500 505 510

Gly Thr Arg Glu Lys Leu Ser Asp Ala Ser Tyr Gln Ser Ile Asn Ile
 515 520 525

Pro Val Thr Gln Asn Met Val Pro Ser Ser Arg Leu Leu Val Tyr Tyr
 530 535 540

Ile Val Thr Gly Glu Gln Thr Ala Glu Leu Val Ser Asp Ser Val Trp
 545 550 555 560

Leu Asn Ile Glu Glu Lys Cys Gly Asn Gln Leu Gln Val His Leu Ser
 565 570 575

Pro Asp Ala Asp Thr Tyr Ser Pro Gly Gln Thr Val Ser Leu Asn Met
 580 585 590

Val Thr Gly Met Asp Ser Trp Val Ala Leu Thr Ala Val Asp Ser Ala
 595 600 605

Val Tyr Gly Val Gln Arg Arg Ala Lys Lys Pro Leu Glu Arg Val Phe
 610 615 620

Gln Phe Leu Glu Lys Ser Asp Leu Gly Cys Gly Ala Gly Gly Gly Leu
 625 630 635 640

Asn Asn Ala Asn Val Phe His Leu Ala Gly Leu Thr Phe Leu Thr Asn
 645 650 655

Ala Asn Ala Asp Asp Ser Gln Glu Asn Asp Glu Pro Cys Lys Glu Ile
 660 665 670

Ile Arg Pro Arg Arg Met Leu Gln Glu Lys Ile Glu Glu Ile Ala Ala
 675 680 685

Lys Tyr Lys His Leu Val Val Lys Lys Cys Cys Tyr Asp Gly Val Arg
 690 695 700

Ile Asn His Asp Glu Thr Cys Glu Gln Arg Ala Ala Arg Ile Ser Val
 705 710 715 720

Gly Pro Arg Cys Val Lys Ala Phe Thr Glu Cys Cys Val Val Ala Ser
 725 730 735

Gln Leu Arg Ala Asn Asn Ser His Lys Asp Leu Gln Leu Gly Arg Leu
 740 745 750

His Met Lys Thr Leu Leu Pro Val Ser Lys Pro Glu Ile Arg Ser Tyr
 755 760 765

Phe Pro Glu Ser Trp Leu Trp Glu Val His Leu Val Pro Arg Arg Lys
 770 775 780

Gln Leu Gln Phe Ala Leu Pro Asp Ser Val Thr Thr Trp Glu Ile Gln
 785 790 795 800

Gly Val Gly Ile Ser Asn Ser Gly Ile Cys Val Ala Asp Thr Ile Lys
 805 810 815

Ala Lys Val Phe Lys Asp Val Phe Leu Glu Met Asn Ile Pro Tyr Ser
 820 825 830

Val Val Arg Gly Glu Gln Val Gln Leu Lys Gly Thr Val Tyr Asn Tyr
 835 840 845

Arg Thr Ser Gly Met Gln Phe Cys Val Lys Met Ser Ala Val Glu Gly
 850 855 860

Ile Cys Thr Ser Glu Ser Pro Val Ile Asp His Gln Gly Thr Lys Ser
 865 870 875 880

Ser Lys Cys Val Arg Gln Lys Val Glu Gly Ser Ser Asn His Leu Val
 885 890 895

Thr Phe Thr Val Leu Pro Leu Glu Ile Gly Leu Gln Asn Ile Asn Phe
 900 905 910

Ser Leu Glu Thr Ser Phe Gly Lys Glu Ile Leu Val Lys Ser Leu Arg
 915 920 925

Val Val Pro Glu Gly Val Lys Arg Glu Ser Tyr Ser Gly Ile Thr Leu
 930 935 940

Asp Pro Arg Gly Ile Tyr Gly Thr Ile Ser Arg Arg Lys Glu Phe Pro
 945 950 955 960

Tyr Arg Ile Pro Leu Asp Leu Val Pro Lys Thr Glu Ile Lys Arg Ile
 965 970 975

Leu Ser Val Lys Gly Leu Leu Val Gly Glu Ile Leu Ser Ala Val Leu
 980 985 990

Ser Arg Glu Gly Ile Asn Ile Leu Thr His Leu Pro Lys Gly Ser Ala
 995 1000 1005

Glu Ala Glu Leu Met Ser Val Val Pro Val Phe Tyr Val Phe His
 1010 1015 1020

Tyr Leu Glu Thr Gly Asn His Trp Asn Ile Phe His Ser Asp Pro
 1025 1030 1035

Leu Ile Glu Lys Arg Asn Leu Glu Lys Lys Leu Lys Glu Gly Met
 1040 1045 1050

Val Ser Ile Met Ser Tyr Arg Asn Ala Asp Tyr Ser Tyr Ser Val
 1055 1060 1065

Trp Lys Gly Gly Ser Ala Ser Thr Trp Leu Thr Ala Phe Ala Leu
 1070 1075 1080

Arg Val Leu Gly Gln Val His Lys Tyr Val Glu Gln Asn Gln Asn
 1085 1090 1095

Ser Ile Cys Asn Ser Leu Leu Trp Leu Val Glu Asn Tyr Gln Leu
 1100 1105 1110

Asp Asn Gly Ser Phe Lys Glu Asn Ser Gln Tyr Gln Pro Ile Lys
 1115 1120 1125

Leu	Gln	Gly	Thr	Leu	Pro	Val	Glu	Ala	Arg	Glu	Asn	Ser	Leu	Tyr
1130							1135					1140		

Leu	Thr	Ala	Phe	Thr	Val	Ile	Gly	Ile	Arg	Lys	Ala	Phe	Asp	Ile
1145							1150					1155		

Cys	Pro	Leu	Val	Lys	Ile	Asn	Thr	Ala	Leu	Ile	Lys	Ala	Asp	Thr
1160							1165					1170		

Phe	Leu	Leu	Glu	Asn	Thr	Leu	Pro	Ala	Gln	Ser	Thr	Phe	Thr	Leu
1175							1180					1185		

Ala	Ile	Ser	Ala	Tyr	Ala	Leu	Ser	Leu	Gly	Asp	Lys	Thr	His	Pro
1190							1195					1200		

Gln	Phe	Arg	Ser	Ile	Val	Ser	Ala	Leu	Lys	Arg	Glu	Ala	Leu	Val
1205							1210					1215		

Lys	Gly	Asn	Pro	Pro	Ile	Tyr	Arg	Phe	Trp	Lys	Asp	Ser	Leu	Gln
1220							1225					1230		

His	Lys	Asp	Ser	Ser	Val	Pro	Asn	Thr	Gly	Thr	Ala	Arg	Met	Val
1235							1240					1245		

Glu	Thr	Thr	Ala	Tyr	Ala	Leu	Leu	Thr	Ser	Leu	Asn	Leu	Lys	Asp
1250							1255					1260		

Ile	Asn	Tyr	Val	Asn	Pro	Ile	Ile	Lys	Trp	Leu	Ser	Glu	Glu	Gln
1265						1270					1275			

Arg	Tyr	Gly	Gly	Gly	Phe	Tyr	Ser	Thr	Gln	Asp	Thr	Ile	Asn	Ala
1280						1285						1290		

Ile	Glu	Gly	Leu	Thr	Glu	Tyr	Ser	Leu	Leu	Val	Lys	Gln	Leu	Arg
1295						1300						1305		

Leu	Asn	Met	Asp	Ile	Asp	Val	Ala	Tyr	Lys	His	Lys	Gly	Pro	Leu
1310						1315						1320		

His	Asn	Tyr	Lys	Met	Thr	Asp	Lys	Asn	Phe	Leu	Gly	Arg	Pro	Val
1325						1330						1335		

Glu	Val	Leu	Leu	Asn	Asp	Asp	Leu	Val	Val	Ser	Thr	Gly	Phe	Gly
1340						1345						1350		

Ser	Gly	Leu	Ala	Thr	Val	His	Val	Thr	Thr	Val	Val	His	Lys	Thr
1355						1360						1365		

Ser	Thr	Ser	Glu	Glu	Val	Cys	Ser	Phe	Tyr	Leu	Lys	Ile	Asp	Thr
1370						1375						1380		

Gln	Asp	Ile	Glu	Ala	Ser	His	Tyr	Arg	Gly	Tyr	Gly	Asn	Ser	Asp
1385						1390						1395		

Tyr	Lys	Arg	Ile	Val	Ala	Cys	Ala	Ser	Tyr	Lys	Pro	Ser	Lys	Glu
1400						1405					1410			

Glu	Ser	Ser	Ser	Gly	Ser	Ser	His	Ala	Val	Met	Asp	Ile	Ser	Leu
1415						1420					1425			

Pro	Thr	Gly	Ile	Asn	Ala	Asn	Glu	Glu	Asp	Leu	Lys	Ala	Leu	Val
1430						1435					1440			

Glu	Gly	Val	Asp	Gln	Leu	Phe	Thr	Asp	Tyr	Gln	Ile	Lys	Asp	Gly
1445						1450					1455			

His	Val	Ile	Leu	Gln	Leu	Asn	Ser	Ile	Pro	Ser	Ser	Asp	Phe	Leu
1460						1465					1470			

Cys	Val	Arg	Phe	Arg	Ile	Phe	Glu	Leu	Phe	Glu	Val	Gly	Phe	Leu
1475						1480					1485			

Ser	Pro	Ala	Thr	Phe	Thr	Val	Tyr	Glu	Tyr	His	Arg	Pro	Asp	Lys
1490						1495					1500			

Gln	Cys	Thr	Met	Phe	Tyr	Ser	Thr	Ser	Asn	Ile	Lys	Ile	Gln	Lys
1505						1510					1515			

Val	Cys	Glu	Gly	Ala	Thr	Cys	Lys	Cys	Ile	Glu	Ala	Asp	Cys	Gly
1520						1525					1530			

Gln Met	Gln Lys Glu Leu Asp	Leu Thr Ile Ser Ala	Glu Thr Arg
1535	1540	1545	

Lys Gln	Thr Ala Cys Asn Pro	Glu Ile Ala Tyr Ala	Tyr Lys Val
1550	1555	1560	

Ile Ile	Thr Ser Ile Thr Thr	Glu Asn Val Phe Val	Lys Tyr Lys
1565	1570	1575	

Ala Thr	Leu Leu Asp Ile Tyr	Lys Thr Gly Glu Ala	Val Ala Glu
1580	1585	1590	

Lys Asp	Ser Glu Ile Thr Phe	Ile Lys Lys Val Thr	Cys Thr Asn
1595	1600	1605	

Ala Glu	Leu Val Lys Gly Arg	Gln Tyr Leu Ile Met	Gly Lys Glu
1610	1615	1620	

Ala Leu	Gln Ile Lys Tyr Asn	Phe Thr Phe Arg Tyr	Ile Tyr Pro
1625	1630	1635	

Leu Asp	Ser Leu Thr Trp Ile	Glu Tyr Trp Pro Arg	Asp Thr Thr
1640	1645	1650	

Cys Ser	Ser Cys Gln Ala Phe	Leu Ala Asn Leu Asp	Glu Phe Ala
1655	1660	1665	

Glu Asp Ile Phe Leu Asn Gly Cys
1670 1675

<210> 45

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 45

Ser Ser Tyr Tyr Met Cys
1 5

<210> 46

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 46

Asn Phe Tyr Tyr Ile Cys
1 5

<210> 47

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 47

Ser Ser Tyr Tyr Met Cys
1 5

<210> 48

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 48

Ser Ser Tyr Tyr Met Asn
1 5

<210> 49

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 49

Ser Ser Tyr Tyr Met Asn

1 5

<210> 50

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 50

Asp Asn Thr Met Thr

1 5

<210> 51

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 51

Thr Tyr Ala Met Gly

1 5

<210> 52

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 52

Gly Asn Ala Ile Asn

1 5

<210> 53

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 53

Thr Tyr Ala Met Gly

1 5

<210> 54

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 54

Ser Ser Tyr Tyr Val Ala

1 5

<210> 55
 <211> 17
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 55

Cys	Ile	Tyr	Thr	Gly	Ser	Gly	Ala	Thr	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys
1				5				10						15	

Gly

<210> 56
 <211> 17
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 56

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

Gly

<210> 57
 <211> 18
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 57

Cys	Ile	Tyr	Ala	Gly	Ser	Ser	Gly	Ile	Ile	Tyr	Tyr	Ala	Asn	Trp	Ala
1				5				10						15	

Lys Gly

<210> 58
 <211> 16
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 58

Met	Ile	Tyr	Gly	Ser	Gly	Ala	Thr	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
1				5				10						15	

<210> 59
 <211> 16
 <212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 59

Met	Ile	Tyr	Gly	Ser	Gly	Ala	Thr	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
1				5				10					15		

<210> 60

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 60

Ile	Ile	Ser	Phe	Gly	Gly	Asp	Ala	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
1				5				10					15		

<210> 61

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 61

Thr	Ile	Asp	Thr	Gly	Asp	Asn	Ser	Phe	Tyr	Ala	Asn	Trp	Ala	Lys	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

<210> 62

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 62

Cys Ile Tyr Thr Gly Ser Asp Thr Thr Tyr Tyr Ala Thr Trp Ala Lys
1 5 10 15

Gly

<210> 63

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 63

Thr Ile Asp Thr Gly Asp Asn Ser Phe Tyr Ala Asn Trp Ala Lys Gly
1 5 10 15

<210> 64

<211> 17
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 64

Ala	Ile	Tyr	Thr	Gly	Ser	Gly	Ala	Thr	Tyr	Lys	Ala	Ser	Trp	Ala	Lys
1				5					10					15	

Gly

<210> 65
 <211> 13
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 65

Asp	Gly	Gly	Tyr	Val	Thr	Pro	Thr	His	Ala	Met	Tyr	Leu
1				5					10			

<210> 66
 <211> 9
 <212> PRT
 <213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 66

Asp Leu His Ala Gly Ile Thr Asn Leu

1 5

<210> 67

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 67

Tyr Pro Thr Tyr Gly Asp Gly Gly His Ala Phe Asn Leu

1 5 10

<210> 68

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 68

Gln Ile Tyr Ser Gly Asp Asn Asn Asp Asn Phe

1 5 10

<210> 69
 <211> 11
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 69

Gln	Ile	Tyr	Ser	Gly	Asp	Asn	Asn	Asp	Asn	Phe
1				5					10	

<210> 70
 <211> 12
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 70

Val	Gly	Ala	Gly	Asn	Ile	Phe	Trp	Tyr	Phe	Asp	Leu
1				5					10		

<210> 71
 <211> 11
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 71

Asn Asp Gly Ser Val Tyr Asn Leu Phe Asn Leu
1 5 10

<210> 72

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 72

Gly Ser Gly Leu
1

<210> 73

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 73

Asn Asp Gly Ser Val Tyr Asn Leu Phe Asn Leu
1 5 10

<210> 74

<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> An artificially synthesized sequence

<400> 74

Asp Gly Gly Tyr Asp Tyr Pro Thr His Ala Met His Tyr
1 5 10

<210> 75
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> An artificially synthesized sequence

<400> 75

Gln Ala Ser Gln Asn Ile Gly Ser Asp Leu Ala
1 5 10

<210> 76
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> An artificially synthesized sequence

<400> 76

Gln Ala Ser Gln Asn Ile Tyr Ser Asn Leu Ala
 1 5 10

<210> 77

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 77

Gln Ser Ser Gln Ser Val Tyr Ser Ser Asp Tyr Leu Ser
 1 5 10

<210> 78

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 78

Gln Ala Ser Glu Ser Ile Ser Asn Trp Leu Ala
 1 5 10

<210> 79

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 79

Gln	Ala	Ser	Glu	Ser	Ile	Ser	Asn	Trp	Leu	Ala
1				5					10	

<210> 80

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 80

Gln	Ala	Ser	Glu	Ser	Ile	Tyr	Ser	Ala	Leu	Ala
1				5					10	

<210> 81

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 81

Gln	Ala	Ser	Glu	Asn	Ile	Tyr	Ser	Ala	Leu	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10

<210> 82

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 82

Gln Ala Ser Gln Asn Ile Tyr Ser Leu Leu Ala
1 5 10

<210> 83

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 83

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

<210> 84

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 84

Gln	Ala	Ser	Gln	Asn	Ile	Gly	Ser	Ser	Leu	Ala
1				5					10	

<210> 85

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 85

Gly	Ala	Ser	Lys	Leu	Ala	Ser
1				5		

<210> 86

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 86

Gly	Ala	Ser	Asn	Leu	Glu	Ser
1				5		

<210> 87
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> An artificially synthesized sequence

<400> 87

Glu Ala Ser Lys Leu Ala Ser
1 5

<210> 88
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> An artificially synthesized sequence

<400> 88

Arg Ala Ser Thr Leu Ala Ser
1 5

<210> 89
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> An artificially synthesized sequence

<400> 89

Arg Ala Ser Thr Leu Ala Ser
1 5

<210> 90

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 90

Ser Ala Ser Thr Leu Ala Ser
1 5

<210> 91

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 91

Tyr Ala Ser Thr Leu Ala Ser
1 5

<210> 92

<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> An artificially synthesized sequence

<400> 92

His Thr Ser Asp Leu Ala Ser
1 5

<210> 93
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> An artificially synthesized sequence

<400> 93

Tyr Ala Ser Thr Leu Ala Ser
1 5

<210> 94
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> An artificially synthesized sequence

<400> 94

Gly Ala Ser Lys Thr His Ser
1 5

<210> 95

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 95

Gln Cys Thr Phe Val Gly Ser Ser Tyr Gly Asn Ala
1 5 10

<210> 96

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 96

Leu Gln Gly Tyr Ser Tyr Ser Asn Val Asp Asp Ala
1 5 10

<210> 97

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 97

Gln	Gly	Thr	Tyr	Tyr	Ser	Ser	Gly	Trp	Tyr	Phe	Ala
1					5					10	

<210> 98

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence.

<400> 98

Gln	Gln	Asp	Tyr	Ser	Ser	Ser	Asn	Val	Asp	Asn	Thr
1					5					10	

<210> 99

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 99

Gln	Gln	Asp	Tyr	Ser	Ser	Ser	Asn	Val	Asp	Asn	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10

<210> 100

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 100

Gln Gln Tyr Tyr Ser Ser Thr Asn Val His Asn Ser
1 5 10

<210> 101

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 101

Gln Gln Tyr Tyr Asp Ile Asn Ser Val Asp Asn Thr
1 5 10

<210> 102

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 102

Gln	Cys	Thr	Ala	Tyr	Gly	Ser	Ser	Asp	Val	Gly	Gly	Thr
1				5					10			

<210> 103

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 103

Gln	Gln	Tyr	Tyr	Asp	Ile	Asn	Ser	Val	Asp	Asn	Thr
1				5					10		

<210> 104

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 104

Gln	Ser	Thr	Lys	Val	Gly	Ser	Ser	Tyr	Gly	Asn	His
1				5					10		

<210> 105

<211> 1680

<212> PRT

<213> *Mus musculus*

<400> 105

Met	Gly	Leu	Trp	Gly	Ile	Leu	Cys	Leu	Leu	Ile	Phe	Leu	Asp	Lys	Thr
1				5					10					15	

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

Val	Gly	Ser	Ser	Glu	Asn	Val	Val	Ile	Gln	Val	His	Gly	Tyr	Thr	Glu
		35				40						45			

Ala	Phe	Asp	Ala	Thr	Leu	Ser	Leu	Lys	Ser	Tyr	Pro	Asp	Lys	Lys	Val
	50					55					60				

Thr	Phe	Ser	Ser	Gly	Tyr	Val	Asn	Leu	Ser	Pro	Glu	Asn	Lys	Phe	Gln
65					70					75				80	

Asn	Ala	Ala	Leu	Leu	Thr	Leu	Gln	Pro	Asn	Gln	Val	Pro	Arg	Glu	Glu
			85					90						95	

Ser	Pro	Val	Ser	His	Val	Tyr	Leu	Glu	Val	Val	Ser	Lys	His	Phe	Ser
		100						105						110	

Lys Ser Lys Lys Ile Pro Ile Thr Tyr Asn Asn Gly Ile Leu Phe Ile
 115 120 125

His Thr Asp Lys Pro Val Tyr Thr Pro Asp Gln Ser Val Lys Ile Arg
 130 135 140

Val Tyr Ser Leu Gly Asp Asp Leu Lys Pro Ala Lys Arg Glu Thr Val
 145 150 155 160

Leu Thr Phe Ile Asp Pro Glu Gly Ser Glu Val Asp Ile Val Glu Glu
 165 170 175

Asn Asp Tyr Thr Gly Ile Ile Ser Phe Pro Asp Phe Lys Ile Pro Ser
 180 185 190

Asn Pro Lys Tyr Gly Val Trp Thr Ile Lys Ala Asn Tyr Lys Lys Asp
 195 200 205

Phe Thr Thr Thr Gly Thr Ala Tyr Phe Glu Ile Lys Glu Tyr Val Leu
 210 215 220

Pro Arg Phe Ser Val Ser Ile Glu Leu Glu Arg Thr Phe Ile Gly Tyr
 225 230 235 240

Lys Asn Phe Lys Asn Phe Glu Ile Thr Val Lys Ala Arg Tyr Phe Tyr
 245 250 255

Asn Lys Val Val Pro Asp Ala Glu Val Tyr Ala Phe Phe Gly Leu Arg
 260 265 270

Glu Asp Ile Lys Asp Glu Glu Lys Gln Met Met His Lys Ala Thr Gln
 275 280 285

Ala Ala Lys Leu Val Asp Gly Val Ala Gln Ile Ser Phe Asp Ser Glu
 290 295 300

Thr Ala Val Lys Glu Leu Ser Tyr Asn Ser Leu Glu Asp Leu Asn Asn
 305 310 315 320

Lys Tyr Leu Tyr Ile Ala Val Thr Val Thr Glu Ser Ser Gly Gly Phe
 325 330 335

Ser Glu Glu Ala Glu Ile Pro Gly Val Lys Tyr Val Leu Ser Pro Tyr
 340 345 350

Thr Leu Asn Leu Val Ala Thr Pro Leu Phe Val Lys Pro Gly Ile Pro
 355 360 365

Phe Ser Ile Lys Ala Gln Val Lys Asp Ser Leu Glu Gln Ala Val Gly
 370 375 380

Gly Val Pro Val Thr Leu Met Ala Gln Thr Val Asp Val Asn Gln Glu
 385 390 395 400

Thr Ser Asp Leu Glu Thr Lys Arg Ser Ile Thr His Asp Thr Asp Gly
 405 410 415

Val Ala Val Phe Val Leu Asn Leu Pro Ser Asn Val Thr Val Leu Lys
 420 425 430

Phe Glu Ile Arg Thr Asp Asp Pro Glu Leu Pro Glu Glu Asn Gln Ala
 435 440 445

Ser Lys Glu Tyr Glu Ala Val Ala Tyr Ser Ser Leu Ser Gln Ser Tyr
 450 455 460

Ile Tyr Ile Ala Trp Thr Glu Asn Tyr Lys Pro Met Leu Val Gly Glu
 465 470 475 480

Tyr Leu Asn Ile Met Val Thr Pro Lys Ser Pro Tyr Ile Asp Lys Ile
 485 490 495

Thr His Tyr Asn Tyr Leu Ile Leu Ser Lys Gly Lys Ile Val Gln Tyr
 500 505 510

Gly Thr Arg Glu Lys Leu Phe Ser Ser Thr Tyr Gln Asn Ile Asn Ile
 515 520 525

Pro Val Thr Gln Asn Met Val Pro Ser Ala Arg Leu Leu Val Tyr Tyr
 530 535 540

Ile Val Thr Gly Glu Gln Thr Ala Glu Leu Val Ala Asp Ala Val Trp
 545 550 555 560

Ile Asn Ile Glu Glu Lys Cys Gly Asn Gln Leu Gln Val His Leu Ser
 565 570 575

Pro Asp Glu Tyr Val Tyr Ser Pro Gly Gln Thr Val Ser Leu Asp Met
 580 585 590

Val Thr Glu Ala Asp Ser Trp Val Ala Leu Ser Ala Val Asp Arg Ala
 595 600 605

Val Tyr Lys Val Gln Gly Asn Ala Lys Arg Ala Met Gln Arg Val Phe
 610 615 620

Gln Ala Leu Asp Glu Lys Ser Asp Leu Gly Cys Gly Ala Gly Gly Gly
 625 630 635 640

His Asp Asn Ala Asp Val Phe His Leu Ala Gly Leu Thr Phe Leu Thr
 645 650 655

Asn Ala Asn Ala Asp Asp Ser His Tyr Arg Asp Asp Ser Cys Lys Glu
 660 665 670

Ile Leu Arg Ser Lys Arg Asn Leu His Leu Leu Arg Gln Lys Ile Glu
 675 680 685

Glu Gln Ala Ala Lys Tyr Lys His Ser Val Pro Lys Lys Cys Cys Tyr
 690 695 700

Asp Gly Ala Arg Val Asn Phe Tyr Glu Thr Cys Glu Glu Arg Val Ala
 705 710 715 720

Arg Val Thr Ile Gly Pro Leu Cys Ile Arg Ala Phe Asn Glu Cys Cys
 725 730 735

Thr Ile Ala Asn Lys Ile Arg Lys Glu Ser Pro His Lys Pro Val Gln
 740 745 750

Leu Gly Arg Ile His Ile Lys Thr Leu Leu Pro Val Met Lys Ala Asp
 755 760 765

Ile Arg Ser Tyr Phe Pro Glu Ser Trp Leu Trp Glu Ile His Arg Val
 770 775 780

Pro Lys Arg Lys Gln Leu Gln Val Thr Leu Pro Asp Ser Leu Thr Thr
 785 790 795 800

Trp Glu Ile Gln Gly Ile Gly Ile Ser Asp Asn Gly Ile Cys Val Ala
 805 810 815

Asp Thr Leu Lys Ala Lys Val Phe Lys Glu Val Phe Leu Glu Met Asn
 820 825 830

Ile Pro Tyr Ser Val Val Arg Gly Glu Gln Ile Gln Leu Lys Gly Thr
 835 840 845

Val Tyr Asn Tyr Met Thr Ser Gly Thr Lys Phe Cys Val Lys Met Ser
 850 855 860

Ala Val Glu Gly Ile Cys Thr Ser Gly Ser Ser Ala Ala Ser Leu His
 865 870 875 880

Thr Ser Arg Pro Ser Arg Cys Val Phe Gln Arg Ile Glu Gly Ser Ser
 885 890 895

Ser His Leu Val Thr Phe Thr Leu Leu Pro Leu Glu Ile Gly Leu His
 900 905 910

Ser Ile Asn Phe Ser Leu Glu Thr Ser Phe Gly Lys Asp Ile Leu Val
 915 920 925

Lys Thr Leu Arg Val Val Pro Glu Gly Val Lys Arg Glu Ser Tyr Ala
 930 935 940

Gly Val Ile Leu Asp Pro Lys Gly Ile Arg Gly Ile Val Asn Arg Arg
 945 950 955 960

Lys Glu Phe Pro Tyr Arg Ile Pro Leu Asp Leu Val Pro Lys Thr Lys
 965 970 975

Val Glu Arg Ile Leu Ser Val Lys Gly Leu Leu Val Gly Glu Phe Leu
 980 985 990

Ser Thr Val Leu Ser Lys Glu Gly Ile Asn Ile Leu Thr His Leu Pro
 995 1000 1005

Lys Gly Ser Ala Glu Ala Glu Leu Met Ser Ile Ala Pro Val Phe
 1010 1015 1020

Tyr Val Phe His Tyr Leu Glu Ala Gly Asn His Trp Asn Ile Phe
 1025 1030 1035

Tyr Pro Asp Thr Leu Ser Lys Arg Gln Ser Leu Glu Lys Lys Ile
 1040 1045 1050

Lys Gln Gly Val Val Ser Val Met Ser Tyr Arg Asn Ala Asp Tyr
 1055 1060 1065

Ser Tyr Ser Met Trp Lys Gly Ala Ser Ala Ser Thr Trp Leu Thr
 1070 1075 1080

Ala Phe Ala Leu Arg Val Leu Gly Gln Val Ala Lys Tyr Val Lys
 1085 1090 1095

Gln Asp Glu Asn Ser Ile Cys Asn Ser Leu Leu Trp Leu Val Glu
 1100 1105 1110

Lys Cys Gln Leu Glu Asn Gly Ser Phe Lys Glu Asn Ser Gln Tyr
 1115 1120 1125

Leu Pro Ile Lys Leu Gln Gly Thr Leu Pro Ala Glu Ala Gln Glu
 1130 1135 1140

Lys Thr Leu Tyr Leu Thr Ala Phe Ser Val Ile Gly Ile Arg Lys
 1145 1150 1155

Ala Val Asp Ile Cys Pro Thr Met Lys Ile His Thr Ala Leu Asp
 1160 1165 1170

Lys Ala Asp Ser Phe Leu Leu Glu Asn Thr Leu Pro Ser Lys Ser
 1175 1180 1185

Thr Phe Thr Leu Ala Ile Val Ala Tyr Ala Leu Ser Leu Gly Asp
 1190 1195 1200

Arg Thr His Pro Arg Phe Arg Leu Ile Val Ser Ala Leu Arg Lys
 1205 1210 1215

Glu Ala Phe Val Lys Gly Asp Pro Pro Ile Tyr Arg Tyr Trp Arg
 1220 1225 1230

Asp Thr Leu Lys Arg Pro Asp Ser Ser Val Pro Ser Ser Gly Thr
 1235 1240 1245

Ala Gly Met Val Glu Thr Thr	Ala Tyr Ala Leu Leu	Ala Ser Leu
1250	1255	1260

Lys Leu Lys Asp Met Asn Tyr	Ala Asn Pro Ile Ile	Lys Trp Leu
1265	1270	1275

Ser Glu Glu Gln Arg Tyr Gly	Gly Gly Phe Tyr Ser	Thr Gln Asp
1280	1285	1290

Thr Ile Asn Ala Ile Glu Gly	Leu Thr Glu Tyr Ser	Leu Leu Leu
1295	1300	1305

Lys Gln Ile His Leu Asp Met	Asp Ile Asn Val Ala	Tyr Lys His
1310	1315	1320

Glu Gly Asp Phe His Lys Tyr	Lys Val Thr Glu Lys	His Phe Leu
1325	1330	1335

Gly Arg Pro Val Glu Val Ser	Leu Asn Asp Asp Leu	Val Val Ser
1340	1345	1350

Thr Gly Tyr Ser Ser Gly Leu	Ala Thr Val Tyr Val	Lys Thr Val
1355	1360	1365

Val His Lys Ile Ser Val Ser	Glu Glu Phe Cys Ser	Phe Tyr Leu
1370	1375	1380

Lys Ile Asp Thr Gln Asp Ile Glu Ala Ser Ser His Phe Arg Leu
 1385 1390 1395

Ser Asp Ser Gly Phe Lys Arg Ile Ile Ala Cys Ala Ser Tyr Lys
 1400 1405 1410

Pro Ser Lys Glu Glu Ser Thr Ser Gly Ser Ser His Ala Val Met
 1415 1420 1425

Asp Ile Ser Leu Pro Thr Gly Ile Gly Ala Asn Glu Glu Asp Leu
 1430 1435 1440

Arg Ala Leu Val Glu Gly Val Asp Gln Leu Leu Thr Asp Tyr Gln
 1445 1450 1455

Ile Lys Asp Gly His Val Ile Leu Gln Leu Asn Ser Ile Pro Ser
 1460 1465 1470

Arg Asp Phe Leu Cys Val Arg Phe Arg Ile Phe Glu Leu Phe Gln
 1475 1480 1485

Val Gly Phe Leu Asn Pro Ala Thr Phe Thr Val Tyr Glu Tyr His
 1490 1495 1500

Arg Pro Asp Lys Gln Cys Thr Met Ile Tyr Ser Ile Ser Asp Thr
 1505 1510 1515

Arg	Leu	Gln	Lys	Val	Cys	Glu	Gly	Ala	Ala	Cys	Thr	Cys	Val	Glu
1520						1525					1530			

Ala	Asp	Cys	Ala	Gln	Leu	Gln	Ala	Glu	Val	Asp	Leu	Ala	Ile	Ser
1535						1540					1545			

Ala	Asp	Ser	Arg	Lys	Glu	Lys	Ala	Cys	Lys	Pro	Glu	Thr	Ala	Tyr
1550						1555					1560			

Ala	Tyr	Lys	Val	Arg	Ile	Thr	Ser	Ala	Thr	Glu	Glu	Asn	Val	Phe
1565						1570					1575			

Val	Lys	Tyr	Thr	Ala	Thr	Leu	Leu	Val	Thr	Tyr	Lys	Thr	Gly	Glu
1580						1585					1590			

Ala	Ala	Asp	Glu	Asn	Ser	Glu	Val	Thr	Phe	Ile	Lys	Lys	Met	Ser
1595						1600					1605			

Cys	Thr	Asn	Ala	Asn	Leu	Val	Lys	Gly	Lys	Gln	Tyr	Leu	Ile	Met
1610						1615					1620			

Gly	Lys	Glu	Val	Leu	Gln	Ile	Lys	His	Asn	Phe	Ser	Phe	Lys	Tyr
1625						1630					1635			

Ile	Tyr	Pro	Leu	Asp	Ser	Ser	Thr	Trp	Ile	Glu	Tyr	Trp	Pro	Thr
1640						1645					1650			

Asp Thr Thr Cys Pro Ser Cys Gln Ala Phe Val Glu Asn Leu Asn
 1655 1660 1665

Asn Phe Ala Glu Asp Leu Phe Leu Asn Ser Cys Glu
 1670 1675 1680

<210> 106

<211> 123

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 106

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val His Ser Ser
 20 25 30

Tyr Tyr Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 35 40 45

Val Gly Ala Ile Phe Thr Gly Ser Gly Ala Glu Tyr Lys Ala Glu Trp
 50 55 60

Ala Lys Gly Arg Val Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val
 65 70 75 80

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
85 90 95

Cys Ala Ser Asp Ala Gly Tyr Asp Tyr Pro Thr His Ala Met His Tyr
100 105 110

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

<210> 107

<211> 123

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 107

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

Ser Leu Arg. Leu Ser Cys Ala Ala Ser Gly Phe Thr Val His Ser Ser
20 25 30

Tyr Tyr Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
35 40 45

Val Gly Ala Ile Phe Thr Gly Ser Gly Ala Glu Tyr Lys Ala Glu Trp
 50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
 65 70 75 80

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 85 90 95

Cys Ala Ser Asp Ala Gly Tyr Asp Tyr Pro Thr His Ala Met His Tyr
 100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 108

<211> 123

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 108

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val His Ser Ser
 20 25 30

Tyr Tyr Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 35 40 45

Val Gly Ala Ile Phe Thr Gly Ser Gly Ala Glu Tyr Lys Ala Glu Trp
 50 55 60

Ala Lys Gly Arg Val Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val
 65 70 75 80

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95

Cys Ala Ser Asp Ala Gly Tyr Asp Tyr Pro Thr His Ala Met His Tyr
 100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 109

<211> 123

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 109

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 Val His Ser Ser
 20 25 30

Tyr Tyr Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 35 40 45

Val Gly Ala Ile Phe Thr Gly Ser Gly Ala Glu Tyr Lys Ala Glu Trp
 50 55 60

Ala Lys Gly Arg Val Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val
 65 70 75 80

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95

Cys Ala Ser Asp Ala Gly Tyr Asp Tyr Pro Thr His Ala Met His Tyr
 100 105 110

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

<210> 110

<211> 123

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 110

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 Val His Ser Ser
 20 25 30

Tyr Tyr Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 35 40 45

Val Ser Gly Ile Phe Thr Gly Ser Gly Ala Thr Tyr Lys Ala Glu Trp
 50 55 60

Ala Lys Gly Arg Val Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val
 65 70 75 80

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95

Cys Ala Ser Asp Ala Gly Tyr Asp Tyr Pro Thr His Ala Met His Tyr
 100 105 110

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

<210> 111

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 111

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

Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Ser	Ser	Ser
			20					25					30		

Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35					40					45			

Tyr	Gly	Ala	Ser	Glu	Thr	Glu	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	Asn	Thr	Lys	Val	Gly	Ser	Ser
				85						90				95	

Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 112

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 112

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Ser
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Gly Ala Ser Glu Thr Glu 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 Asn Thr Lys Val Gly Ser Ser
 85 90 95

Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 113

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 113

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Ser
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Gly Ala Ser Thr Thr 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 Asn Thr Lys Val Gly Ser Ser
 85 90 95

Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 114

<211> 328

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 114

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 100 105 110

Pro Ala Pro Glu Leu Arg Arg Gly Pro Lys Val Phe Leu Phe Pro Pro
 115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 195 200 205

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 210 215 220

<220>

<223> An artificially synthesized sequence

<400> 115

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	Leu	Tyr	Ser
	50					55					60				

Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Lys	Thr
65					70					75				80	

Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
			85						90					95	

Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro
			100					105					110		

Glu	Phe	Arg	Arg	Gly	Pro	Lys	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
	115						120						125		

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 130 135 140

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
 225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 275 280 285

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 290 295 300

Cys Ser Val Leu His Glu Ala Leu His Ala His Tyr Thr Arg Lys Glu
 305 310 315 320

Leu Ser Leu Ser Pro
 325

<210> 116

<211> 325

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 116

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 Leu Tyr Ser
 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
 65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
 100 105 110

Glu Phe Arg Arg Gly Pro Lys Val Phe Leu Phe Pro Pro Lys Pro Lys
 115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 130 135 140

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
 225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 290 295 300

Cys Ser Val Leu His Glu Ala Leu His Ala His Tyr Thr Arg Lys Glu
 305 310 315 320

Leu Ser Leu Ser Pro
 325

<210> 117

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 117

Ser Ser Tyr Tyr Met Ala

1

5

<210> 118

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 118

Ala Ile Phe Thr Gly Ser Gly Ala Glu Tyr Lys Ala Glu Trp Ala Lys

1

5

10

15

Gly

<210> 119

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 119

Ala	Ile	Phe	Thr	Gly	Ser	Gly	Ala	Glu	Tyr	Lys	Ala	Glu	Trp	Val	Lys
1				5					10					15	

Gly

<210> 120

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 120

Gly	Ile	Phe	Thr	Gly	Ser	Gly	Ala	Thr	Tyr	Lys	Ala	Glu	Trp	Ala	Lys
1				5					10					15	

Gly

<210> 121

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 121

Asp	Ala	Gly	Tyr	Asp	Tyr	Pro	Thr	His	Ala	Met	His	Tyr
1				5						10		

<210> 122

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 122

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

<210> 123

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 123

Gly Ala Ser Glu Thr Glu Ser

1 5

<210> 124

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 124

Gly Ala Ser Thr Thr Gln Ser

1 5

<210> 125

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 125

Gln Asn Thr Lys Val Gly Ser Ser Tyr Gly Asn Thr

1 5 10

<210> 126

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<220>

<221> misc_feature

<222> (5)..(5)

<223> Xaa is Met or Val

<220>

<221> misc_feature

<222> (6)..(6)

<223> Xaa is Cys or Ala

<400> 126

Ser Ser Tyr Tyr Xaa Xaa

1

5

<210> 127

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<220>

<221> misc_feature

<222> (1)..(1)

<223> Xaa is Cys, Ala or Gly

<220>

<221> misc_feature
 <222> (3).. (3)
 <223> Xaa is Tyr or Phe

<220>
 <221> misc_feature
 <222> (9).. (9)
 <223> Xaa is Thr, Asp or Glu

<220>
 <221> misc_feature
 <222> (11).. (11)
 <223> Xaa is Tyr, Lys or Gln

<220>
 <221> misc_feature
 <222> (13).. (13)
 <223> Xaa is Ser, Asp or Glu

<220>
 <221> misc_feature
 <222> (15).. (15)
 <223> Xaa is Ala or Val

<400> 127

Xaa	Ile	Xaa	Thr	Gly	Ser	Gly	Ala	Xaa	Tyr	Xaa	Ala	Xaa	Trp	Xaa	Lys
1				5					10					15	

Gly

<210> 128
 <211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<220>

<221> misc_feature

<222> (2).. (2)

<223> Xaa is Gly or Ala

<220>

<221> misc_feature

<222> (5).. (5)

<223> Xaa is Val, Gln or Asp

<220>

<221> misc_feature

<222> (6).. (6)

<223> Xaa is Thr or Tyr

<220>

<221> misc_feature

<222> (12).. (12)

<223> Xaa is Tyr or His

<220>

<221> misc_feature

<222> (13).. (13)

<223> Xaa is Leu or Tyr

<400> 128

Asp Xaa Gly Tyr Xaa Xaa Pro Thr His Ala Met Xaa Xaa

1

5

10

<210> 129
 <211> 11
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> Xaa is Gln or Arg

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> Xaa is Asn, Gln or Gly

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> Xaa is Gly or Ser

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> Xaa is Asp, Lys or Ser

<400> 129

Xaa Ala Ser Gln Xaa Ile Xaa Ser Xaa Leu Ala
 1 5 10

<210> 130
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> Xaa is Lys, Glu or Thr

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> Xaa is Leu or Thr

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> Xaa is Ala, His, Glu or Gln

<400> 130

Gly Ala Ser Xaa Xaa Xaa Ser
 1 5

<210> 131
 <211> 12
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> Xaa is Ser, Cys, Asn or Thr

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> Xaa is Phe or Lys

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> Xaa is Ala, Thr or His

<400> 131

Gln Xaa Thr Xaa Val Gly Ser Ser Tyr Gly Asn Xaa
 1 5 10

<210> 132
 <211> 30
 <212> PRT
 <213> Artificial sequence

<220>
 <223> An artificially synthesized sequence

<400> 132

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 Ser His
 20 25 30

<210> 133

<211> 30

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 133

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val His
 20 25 30

<210> 134

<211> 30

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 134

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 Val His
 20 25 30

<210> 135

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 135

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

<210> 136

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 136

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

<210> 137

<211> 32

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 137

Arg	Phe	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Lys	Asn	Gln	Val	Val	Leu	Thr
1				5					10					15	

Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys	Ala	Ser
				20				25					30		

<210> 138

<211> 32

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 138

Arg	Val	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Lys	Asn	Gln	Val	Val	Leu	Thr
1				5					10					15	

Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys	Ala	Ser
				20				25					30		

<210> 139

<211> 32

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 139

Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln
1				5					10					15	

Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Ser
			20					25					30		

<210> 140

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 140

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

<210> 141

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 141

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

<210> 142

<211> 23

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 142

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

Asp	Arg	Val	Thr	Ile	Thr	Cys
						20

<210> 143

<211> 23

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 143

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

Asp Arg Val Thr Ile Thr Cys
 20

<210> 144

<211> 15

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 144

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

<210> 145

<211> 15

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 145

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

<210> 146

<211> 32

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 146

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

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

<210> 147

<211> 32

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 147

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

Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys
			20					25					30		

<210> 148

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 148

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys

1 5 10

<210> 149

<211> 448

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 149

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

1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly His Ile Phe Ser Asn Tyr

20 25 30

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

35 40 45

Gly Glu Ile Leu Pro Gly Ser Gly His Thr Glu Tyr Thr Glu Asn Phe
 50 55 60

Lys Asp Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Tyr Phe Phe Gly Ser Ser Pro Asn Trp Tyr Phe Asp Val Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
 115 120 125

Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr
 130 135 140

Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
 145 150 155 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
 165 170 175

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
 180 185 190

Val Pro Ser Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp
 195 200 205

His Lys Pro Ser Asn Thr Lys Val Asp Lys Thr Val Glu Arg Lys Cys
 210 215 220

Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser
 225 230 235 240

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 245 250 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro
 260 265 270

Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 275 280 285

Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val
 290 295 300

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
 305 310 315 320

Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr
 325 330 335

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
 340 345 350

Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
 355 360 365

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
 370 375 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
 385 390 395 400

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser
 405 410 415

Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Leu His Glu Ala
 420 425 430

Leu His Ser His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
 435 440 445

<210> 150

<211> 214

<212> PRT

<213> Artificial sequence

<220>

<223> An artificially synthesized sequence

<400> 150

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

Asp Arg Val Thr Ile Thr Cys Gly Ala Ser Glu Asn Ile Tyr Gly Ala
 20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Tyr Gly Ala Thr Asn Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Asn Val Leu Asn Thr Pro Leu
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala

130

135

140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

Phe Asn Arg Gly Glu Cys
 210