

SEQUENCE LISTING

<110> CHUGAI SEIYAKU KABUSHIKI KAISHA

<120> AN ANTIBODY, A PHARMACEUTICAL COMPOSITION, AND A METHOD

<130> C1-A1923P

<150> JP 2019-189148

<151> 2019-10-16

<160> 115

<170> PatentIn version 3.5

<210> 1

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> COS0637pH_HVR-H1

<400> 1

Ala Tyr Ala Met Asn

1

5

<210> 2

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> COS0637pH_HVR-H2

<220>

<221> misc_feature

<222> (5)..(8)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature

<222> (15)..(16)

<223> Xaa can be any naturally occurring amino acid

<400> 2

Leu Ile Tyr Gly Xaa Xaa Xaa Xaa Phe Tyr Ala Ser Trp Ala Xaa Xaa
 1 5 10 15

<210> 3
 <211> 12
 <212> PRT
 <213> Artificial sequence

<220>
 <223> COS0637pH_HVR-H3

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> Xaa can be any naturally occurring amino acid

<400> 3

Gly Arg Ser Xaa Asn Tyr Xaa Ser Xaa Phe His Leu
 1 5 10

<210> 4
 <211> 13
 <212> PRT
 <213> Artificial sequence

<220>
 <223> COS0637pH_HVR-L1

<220>
 <221> misc_feature
 <222> (3)..(5)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature

<222> (10).. (10)
 <223> Xaa can be any naturally occurring amino acid

<400> 4

Gln Ala Xaa Xaa Xaa Leu His Asp Lys Xaa Asn Leu Ala
 1 5 10

<210> 5
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
 <223> COS0637pH_HVR-L2

<220>
 <221> misc_feature
 <222> (1).. (1)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (4).. (5)
 <223> Xaa can be any naturally occurring amino acid

<400> 5

Xaa Ala Ser Xaa Xaa Glu Ser
 1 5

<210> 6
 <211> 13
 <212> PRT
 <213> Artificial sequence

<220>
 <223> COS0637pH_HVR-L3

<220>
 <221> misc_feature
 <222> (1).. (1)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature

<222> (5)..(8)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> Xaa can be any naturally occurring amino acid

<400> 6

Xaa Gly Glu Phe Xaa Xaa Xaa Xaa Ala Asp Xaa Asn Xaa
 1 5 10

<210> 7
 <211> 5
 <212> PRT
 <213> Artificial sequence

<220>
 <223> C0S0637pHv1_HVR-H1

<400> 7

Ala Tyr Ala Met Asn
 1 5

<210> 8
 <211> 16
 <212> PRT
 <213> Artificial sequence

<220>
 <223> C0S0637pHv1_HVR-H2

<400> 8

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

<210> 9
 <211> 16
 <212> PRT

<213> Artificial sequence

<220>

<223> C0S0637pHv2_HVR-H2

<400> 9

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

<210> 10

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> C0S0637pHv3_HVR-H2

<400> 10

Leu	Ile	Tyr	Gly	Ser	Gly	His	Glu	Phe	Tyr	Ala	Ser	Trp	Ala	Glu	Glu
1				5					10					15	

<210> 11

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> C0S0637pHv1_HVR-H3

<400> 11

Gly	Arg	Ser	Lys	Asn	Tyr	Asn	Ser	Asp	Phe	His	Leu
1			5					10			

<210> 12

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> C0S0637pHv2_HVR-H3

<400> 12

Gly	Arg	Ser	Val	Asn	Tyr	Asn	Ser	Asp	Phe	His	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

6

1 5 10

<210> 13
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> COS0637pHv3_HVR-H3

<400> 13

Gly Arg Ser Lys Asn Tyr Val Ser Gly Phe His Leu
1 5 10

<210> 14
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> COS0637pHv1_HVR-L1

<400> 14

Gln Ala Ser Gln Ser Leu His Asp Lys Lys Asn Leu Ala
1 5 10

<210> 15
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> COS0637pHv3_HVR-L1

<400> 15

Gln Ala Ser Gln Ile Leu His Asp Lys Lys Asn Leu Ala
1 5 10

<210> 16
<211> 13
<212> PRT
<213> Artificial sequence

<220>

<223> COS0637pHv5_HVR-L1

<400> 16

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

<210> 17

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> COS0637pHv6_HVR-L1

<400> 17

Gln Ala Gln Gln Ile Leu His Asp Lys Arg Asn Leu Ala
 1 5 10

<210> 18

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> COS0637pHv8_HVR-L1

<400> 18

Gln Ala Asn Gln Ile Leu His Asp Lys Lys Asn Leu Ala
 1 5 10

<210> 19

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> COS0637pHv1_HVR-L2

<400> 19

Gly Ala Ser Thr Leu Glu Ser
 1 5

<210> 20
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
 <223> COS0637pHv3_HVR-L2

<400> 20

Gln Ala Ser Gln Leu Glu Ser
 1 5

<210> 21
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
 <223> COS0637pHv5_HVR-L2

<400> 21

Gly Ala Ser Gln Leu Glu Ser
 1 5

<210> 22
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
 <223> COS0637pHv9_HVR-L2

<400> 22

Gln Ala Ser Gln Arg Glu Ser
 1 5

<210> 23
 <211> 13
 <212> PRT
 <213> Artificial sequence

<220>
 <223> COS0637pHv1_HVR-L3

<400> 23

Gln Gly Glu Phe Ser Cys Ser Ser Ala Asp Cys Asn Thr
1 5 10

<210> 24

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> C0S0637pHv3_HVR-L3

<400> 24

His Gly Glu Phe Ser Tyr Glu Ser Ala Asp Leu Asn Gln
1 5 10

<210> 25

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> C0S0637pHv5_HVR-L3

<400> 25

His Gly Glu Phe Ser Tyr Glu Glu Ala Asp Leu Asn Thr
1 5 10

<210> 26

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> C0S0637pHv6_HVR-L3

<400> 26

His Gly Glu Phe Ser Tyr Glu Ser Ala Asp Leu Asn Thr
1 5 10

<210> 27

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

<220>
 <223> C0S0637pHv7_HVR-L3

<400> 27

His Gly Glu Phe Ser Tyr Ser Ser Ala Asp Leu Asn Thr
 1 5 10

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

<220>
 <223> C0S0637pHv9_HVR-L3

<400> 28

His Gly Glu Phe Pro Tyr Glu Ser Ala Asp Leu Asn Thr
 1 5 10

<210> 29
 <211> 701
 <212> PRT
 <213> Cynomolgus macaque

<400> 29

Met Trp Cys Ile Ile Leu Phe Ser Leu Leu Ala Trp Val Tyr Ala Glu
 1 5 10 15

Pro Thr Met Tyr Gly Glu Ile Leu Ser Pro Asn Tyr Pro Gln Ala Tyr
 20 25 30

Pro Ser Glu Val Glu Lys Ser Trp Asp Ile Glu Val Pro Glu Gly Tyr
 35 40 45

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

Cys Ala Tyr Asp Ser Val Gln Ile Met Ser Gly Asp Ile Glu Glu Gly
65 70 75 80

Arg Leu Cys Gly Gln Arg Thr Ser Asn Asn Pro Tyr Ser Pro Ile Val
85 90 95

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

Asp Phe Ser Asn Glu Glu Arg Phe Thr Gly Phe Ala Ala Tyr Tyr Val
115 120 125

Ala Thr Asp Ile Asn Glu Cys Thr Asp Phe Val Asp Ala Pro Cys Ser
130 135 140

His Phe Cys Asn Asn Phe Ile Gly Gly Tyr Phe Cys Ser Cys Pro Pro
145 150 155 160

Glu Tyr Phe Leu His Asp Asp Met Lys Asn Cys Gly Val Asn Cys Ser
165 170 175

Gly Asp Val Phe Thr Ala Leu Ile Gly Glu Ile Ala Ser Pro Asn Tyr
180 185 190

Pro Lys Pro Tyr Pro Glu Asn Ser Arg Cys Glu Tyr Gln Ile Arg Leu
195 200 205

Glu Lys Gly Phe Gln Val Val Val Thr Val Arg Arg Glu Asp Phe Asp
210 215 220

Val Glu Pro Ala Asp Ser Glu Gly Asn Cys Leu Asp Ser Leu Val Phe
225 230 235 240

Val Ala Gly Asp Gln Gln Phe Gly Pro Tyr Cys Gly Arg Gly Phe Pro
245 250 255

Gly Pro Leu Asn Ile Glu Thr Lys Ser Asn Val Leu Asp Ile Ile Phe
260 265 270

Gln Thr Asp Leu Thr Gly Gln Asn Lys Gly Trp Lys Leu Arg Tyr His
 275 280 285

Gly Asp Pro Met Pro Cys Pro Lys Glu Glu Thr Pro Thr Ser Val Trp
 290 295 300

Glu Pro Ala Lys Ala Lys Tyr Val Phe Arg Asp Val Val Arg Ile Thr
 305 310 315 320

Cys Leu Asp Gly Phe Glu Val Val Glu Gly Arg Val Gly Ala Thr Ser
 325 330 335

Phe His Ser Thr Cys Gln Ser Asn Gly Lys Trp Ser Asn Ser Lys Leu
 340 345 350

Lys Cys Gln Pro Val Asp Cys Gly Ile Pro Glu Ser Ile Glu Asn Gly
 355 360 365

Lys Val Glu Asp Pro Glu Ser Thr Leu Phe Gly Ser Val Thr Arg Tyr
 370 375 380

Thr Cys Glu Glu Pro Tyr Tyr Tyr Met Glu Asn Gly Gly Asn Gly Gln
 385 390 395 400

Tyr His Cys Ala Ser Asn Gly Ser Trp Val Asn Glu Ala Leu Ser Pro
 405 410 415

Glu Leu Pro Lys Cys Val Pro Val Cys Gly Val Pro Arg Glu Pro Phe
 420 425 430

Glu Gly Lys Gln Arg Ile Ile Gly Gly Ser Asp Ala Asp Ile Lys Asn
 435 440 445

Phe Pro Trp Gln Val Phe Phe Asp Asn Pro Trp Ala Gly Gly Ala Leu
 450 455 460

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

Gln Glu Pro Thr Met Tyr Val Gly Ser Thr Ser Val Gln Thr Ser Arg
 485 490 495

Leu Ala Lys Ser Lys Met Leu Thr Ser Glu Arg Val Phe Ile His Pro
 500 505 510

Gly Trp Lys Leu Leu Glu Val Pro Glu Ala Arg Thr Asn Phe Asp Asn
 515 520 525

Asp Ile Ala Leu Val Gln Leu Lys Asp Pro Val Lys Met Gly Pro Thr
 530 535 540

Val Ala Pro Ile Cys Leu Pro Gly Thr Ser Ser Asp Tyr Asn Leu Met
 545 550 555 560

Asp Gly Asp Leu Gly Leu Ile Ala Gly Trp Gly Arg Thr Glu Lys Arg
 565 570 575

Asp Arg Ala Leu Arg Leu Lys Ala Ala Arg Leu Pro Val Ala Pro Leu
 580 585 590

Arg Lys Cys Arg Glu Val Lys Val Glu Asn Pro Lys Ala Asp Ala Gly
 595 600 605

Ala Tyr Val Phe Thr Pro Asn Met Ile Cys Ala Gly Gly Glu Lys Gly
 610 615 620

Met Asp Ser Cys Lys Gly Asp Ser Gly Gly Ala Phe Ala Val Gln Asp
 625 630 635 640

Pro Asn Asp Lys Thr Lys Phe Tyr Val Ala Gly Leu Val Ser Trp Gly
 645 650 655

Pro Gln Cys Gly Thr Tyr Gly Leu Tyr Thr Arg Val Gln Asn Tyr Val
 660 665 670

Asp Trp Ile Lys Lys Thr Met Gln Glu Asn Ser Thr Pro Ser Lys Asp
 675 680 685

Gly Gly Gly Gly Ser Asp Tyr Lys Asp Asp Asp Lys
 690 695 700

<210> 30

<211> 718

<212> PRT

<213> *Cynomolgus macaque*

<400> 30

Met Trp Leu Leu Tyr Leu Leu Val Pro Ala Leu Phe Cys Arg Ala Gly
 1 5 10 15

Gly Ser Ile Pro Ile Pro Gln Lys Leu Phe Gly Glu Val Thr Ser Pro
 20 25 30

Leu Phe Pro Lys Pro Tyr Pro Asn Ser Phe Glu Thr Thr Thr Val Ile
 35 40 45

Thr Val Pro Thr Gly Tyr Arg Val Lys Leu Val Phe Gln His Phe Asp
 50 55 60

Leu Glu Pro Ser Glu Gly Cys Phe Tyr Asp Tyr Val Lys Ile Ser Ala
 65 70 75 80

Asp Lys Lys Asn Leu Gly Arg Phe Cys Gly Gln Leu Gly Ser Pro Leu
 85 90 95

Gly Asn Pro Pro Gly Lys Lys Glu Phe Leu Ser Gln Gly Asn Lys Met
 100 105 110

Leu Leu Thr Phe His Thr Asp Phe Ser Asn Glu Glu Asn Gly Thr Ile
 115 120 125

Met Phe Tyr Lys Gly Phe Leu Ala Tyr Tyr Gln Ala Val Asp Leu Asp

130		135		140
Glu Cys Ala Ser Gln Ser Glu Ser Gly Glu Lys Asp Pro Gln Pro Gln				
145		150		155
Cys Gln His Leu Cys His Asn Tyr Val Gly Gly Tyr Phe Cys Ser Cys				
	165		170	175
Arg Pro Gly Tyr Glu Leu Gln Glu Asp Arg His Ser Cys Gln Ala Glu				
	180		185	190
Cys Ser Ser Glu Leu Tyr Thr Glu Ala Ser Gly Tyr Ile Ser Ser Leu				
	195		200	205
Glu Tyr Pro Arg Ser Tyr Pro Pro Asp Leu Arg Cys Asn Tyr Ser Ile				
	210		215	220
Arg Val Glu Arg Gly Leu Thr Leu His Leu Lys Phe Leu Glu Pro Phe				
225		230		235
Glu Ile Asp Asp His Gln Gln Val His Cys Pro Tyr Asp Gln Leu Gln				
	245		250	255
Ile Tyr Ala Asn Gly Lys Asn Ile Gly Glu Phe Cys Gly Lys Gln Arg				
	260		265	270
Pro Pro Asp Phe Asp Thr Ser Ser Asn Ala Val Asp Leu Leu Phe Phe				
	275		280	285
Thr Asp Glu Ser Gly Asp Ser Arg Gly Trp Lys Leu Arg Tyr Thr Thr				
	290		295	300
Glu Ile Ile Lys Cys Pro Gln Pro Lys Thr Leu Asp Glu Phe Thr Val				
305		310		315
Ile Gln Asn Leu Gln Pro Gln Tyr Gln Phe Arg Asp Tyr Phe Ile Ala				
	325		330	335

Thr Cys Lys Leu Gly Tyr Gln Leu Ile Glu Gly Asn Gln Val Leu His
 340 345 350

Ser Phe Thr Ala Val Cys Gln Asp Asp Gly Thr Trp His Arg Ala Met
 355 360 365

Pro Arg Cys Lys Ile Lys Asp Cys Gly Gln Pro Arg Asn Leu Pro Asn
 370 375 380

Gly Ala Phe Arg Tyr Thr Thr Thr Met Gly Val Asn Thr Tyr Lys Ala
 385 390 395 400

Arg Ile Gln Tyr Tyr Cys His Glu Pro Tyr Tyr Lys Met Gln Thr Arg
 405 410 415

Ala Gly Ser Lys Glu Ser Glu Gln Gly Leu Tyr Thr Cys Thr Ala Gln
 420 425 430

Gly Ile Trp Lys Asn Glu Gln Lys Gly Glu Lys Ile Pro Arg Cys Leu
 435 440 445

Pro Val Cys Gly Lys Pro Val Asn Pro Val Glu Gln Arg Gln Gln Ile
 450 455 460

Ile Gly Gly Gln Lys Ala Lys Met Gly Asn Phe Pro Trp Gln Val Phe
 465 470 475 480

Thr Asn Ile His Gly Arg Gly Gly Gly Ala Leu Leu Gly Asp Arg Trp
 485 490 495

Ile Leu Thr Ala Ala His Thr Leu Tyr Pro Lys Glu His Glu Ala Gln
 500 505 510

Ser Asn Ala Ser Leu Asp Val Phe Leu Gly His Thr Asn Val Glu Glu
 515 520 525

Leu Met Lys Leu Ala Asn His Pro Ile Arg Arg Val Ser Ile His Pro

530		535		540
Asp Tyr Arg Gln Asp Glu Ser His Asn Phe Glu Gly Asp Ile Ala Leu				
545		550		555
				560
Leu Glu Leu Glu Asn Ser Val Thr Leu Gly Pro Asn Leu Leu Pro Ile				
		565		570
				575
Cys Leu Pro Asp Asn Glu Thr Phe Tyr Asp Leu Gly Leu Met Gly Tyr				
		580		585
				590
Val Ser Gly Phe Gly Val Met Glu Glu Lys Ile Ala His Asp Leu Arg				
		595		600
				605
Phe Val Arg Leu Pro Val Ala Asn Arg Lys Asp Cys Glu Thr Trp Leu				
		610		615
				620
Arg Gly Lys Asn Arg Leu Asp Val Phe Ser Gln Asn Met Phe Cys Ala				
		625		630
				635
				640
Gly His Pro Ser Leu Lys Gln Asp Ala Cys Gln Gly Asp Ala Gly Gly				
		645		650
				655
Val Phe Ala Val Arg Asp Pro Asn Thr Asp Arg Trp Ile Ala Thr Gly				
		660		665
				670
Ile Val Ser Trp Gly Ile Gly Cys Ser Lys Gly Tyr Gly Phe Tyr Thr				
		675		680
				685
Lys Val Leu Asn Tyr Val Asp Trp Ile Lys Lys Glu Met Glu Glu Glu				
		690		695
				700
Asp Gly Gly Gly Gly Ser His His His His His His His His				
		705		710
				715
<210> 31				
<211> 688				
<212> PRT				

<213> Homo sapiens

<400> 31

Met Trp Cys Ile Val Leu Phe Ser Leu Leu Ala Trp Val Tyr Ala Glu
 1 5 10 15

Pro Thr Met Tyr Gly Glu Ile Leu Ser Pro Asn Tyr Pro Gln Ala Tyr
 20 25 30

Pro Ser Glu Val Glu Lys Ser Trp Asp Ile Glu Val Pro Glu Gly Tyr
 35 40 45

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

Cys Ala Tyr Asp Ser Val Gln Ile Ile Ser Gly Asp Thr Glu Glu Gly
 65 70 75 80

Arg Leu Cys Gly Gln Arg Ser Ser Asn Asn Pro His Ser Pro Ile Val
 85 90 95

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

Asp Phe Ser Asn Glu Glu Arg Phe Thr Gly Phe Ala Ala Tyr Tyr Val
 115 120 125

Ala Thr Asp Ile Asn Glu Cys Thr Asp Phe Val Asp Val Pro Cys Ser
 130 135 140

His Phe Cys Asn Asn Phe Ile Gly Gly Tyr Phe Cys Ser Cys Pro Pro
 145 150 155 160

Glu Tyr Phe Leu His Asp Asp Met Lys Asn Cys Gly Val Asn Cys Ser
 165 170 175

Gly Asp Val Phe Thr Ala Leu Ile Gly Glu Ile Ala Ser Pro Asn Tyr
 180 185 190

Pro Lys Pro Tyr Pro Glu Asn Ser Arg Cys Glu Tyr Gln Ile Arg Leu
 195 200 205

Glu Lys Gly Phe Gln Val Val Val Thr Leu Arg Arg Glu Asp Phe Asp
 210 215 220

Val Glu Ala Ala Asp Ser Ala Gly Asn Cys Leu Asp Ser Leu Val Phe
 225 230 235 240

Val Ala Gly Asp Arg Gln Phe Gly Pro Tyr Cys Gly His Gly Phe Pro
 245 250 255

Gly Pro Leu Asn Ile Glu Thr Lys Ser Asn Ala Leu Asp Ile Ile Phe
 260 265 270

Gln Thr Asp Leu Thr Gly Gln Lys Lys Gly Trp Lys Leu Arg Tyr His
 275 280 285

Gly Asp Pro Met Pro Cys Pro Lys Glu Asp Thr Pro Asn Ser Val Trp
 290 295 300

Glu Pro Ala Lys Ala Lys Tyr Val Phe Arg Asp Val Val Gln Ile Thr
 305 310 315 320

Cys Leu Asp Gly Phe Glu Val Val Glu Gly Arg Val Gly Ala Thr Ser
 325 330 335

Phe Tyr Ser Thr Cys Gln Ser Asn Gly Lys Trp Ser Asn Ser Lys Leu
 340 345 350

Lys Cys Gln Pro Val Asp Cys Gly Ile Pro Glu Ser Ile Glu Asn Gly
 355 360 365

Lys Val Glu Asp Pro Glu Ser Thr Leu Phe Gly Ser Val Ile Arg Tyr
 370 375 380

Thr Cys Glu Glu Pro Tyr Tyr Tyr Met Glu Asn Gly Gly Gly Glu
385 390 395 400

Tyr His Cys Ala Gly Asn Gly Ser Trp Val Asn Glu Val Leu Gly Pro
405 410 415

Glu Leu Pro Lys Cys Val Pro Val Cys Gly Val Pro Arg Glu Pro Phe
420 425 430

Glu Glu Lys Gln Arg Ile Ile Gly Gly Ser Asp Ala Asp Ile Lys Asn
435 440 445

Phe Pro Trp Gln Val Phe Phe Asp Asn Pro Trp Ala Gly Gly Ala Leu
450 455 460

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

Arg Glu Pro Thr Met Tyr Val Gly Ser Thr Ser Val Gln Thr Ser Arg
485 490 495

Leu Ala Lys Ser Lys Met Leu Thr Pro Glu His Val Phe Ile His Pro
500 505 510

Gly Trp Lys Leu Leu Glu Val Pro Glu Gly Arg Thr Asn Phe Asp Asn
515 520 525

Asp Ile Ala Leu Val Arg Leu Lys Asp Pro Val Lys Met Gly Pro Thr
530 535 540

Val Ser Pro Ile Cys Leu Pro Gly Thr Ser Ser Asp Tyr Asn Leu Met
545 550 555 560

Asp Gly Asp Leu Gly Leu Ile Ser Gly Trp Gly Arg Thr Glu Lys Arg
565 570 575

Asp Arg Ala Val Arg Leu Lys Ala Ala Arg Leu Pro Val Ala Pro Leu
580 585 590

Arg Lys Cys Lys Glu Val Lys Val Glu Lys Pro Thr Ala Asp Ala Glu
 595 600 605

Ala Tyr Val Phe Thr Pro Asn Met Ile Cys Ala Gly Gly Glu Lys Gly
 610 615 620

Met Asp Ser Cys Lys Gly Asp Ser Gly Gly Ala Phe Ala Val Gln Asp
 625 630 635 640

Pro Asn Asp Lys Thr Lys Phe Tyr Ala Ala Gly Leu Val Ser Trp Gly
 645 650 655

Pro Gln Cys Gly Thr Tyr Gly Leu Tyr Thr Arg Val Lys Asn Tyr Val
 660 665 670

Asp Trp Ile Met Lys Thr Met Gln Glu Asn Ser Thr Pro Arg Glu Asp
 675 680 685

<210> 32

<211> 705

<212> PRT

<213> Homo sapiens

<400> 32

Met Trp Leu Leu Tyr Leu Leu Val Pro Ala Leu Phe Cys Arg Ala Gly
 1 5 10 15

Gly Ser Ile Pro Ile Pro Gln Lys Leu Phe Gly Glu Val Thr Ser Pro
 20 25 30

Leu Phe Pro Lys Pro Tyr Pro Asn Asn Phe Glu Thr Thr Thr Val Ile
 35 40 45

Thr Val Pro Thr Gly Tyr Arg Val Lys Leu Val Phe Gln Gln Phe Asp
 50 55 60

Leu Glu Pro Ser Glu Gly Cys Phe Tyr Asp Tyr Val Lys Ile Ser Ala

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

Pro Pro Asp Leu Asp Thr Ser Ser Asn Ala Val Asp Leu Leu Phe Phe
 275 280 285

Thr Asp Glu Ser Gly Asp Ser Arg Gly Trp Lys Leu Arg Tyr Thr Thr
 290 295 300

Glu Ile Ile Lys Cys Pro Gln Pro Lys Thr Leu Asp Glu Phe Thr Ile
 305 310 315 320

Ile Gln Asn Leu Gln Pro Gln Tyr Gln Phe Arg Asp Tyr Phe Ile Ala
 325 330 335

Thr Cys Lys Gln Gly Tyr Gln Leu Ile Glu Gly Asn Gln Val Leu His
 340 345 350

Ser Phe Thr Ala Val Cys Gln Asp Asp Gly Thr Trp His Arg Ala Met
 355 360 365

Pro Arg Cys Lys Ile Lys Asp Cys Gly Gln Pro Arg Asn Leu Pro Asn
 370 375 380

Gly Asp Phe Arg Tyr Thr Thr Thr Met Gly Val Asn Thr Tyr Lys Ala
 385 390 395 400

Arg Ile Gln Tyr Tyr Cys His Glu Pro Tyr Tyr Lys Met Gln Thr Arg
 405 410 415

Ala Gly Ser Arg Glu Ser Glu Gln Gly Val Tyr Thr Cys Thr Ala Gln
 420 425 430

Gly Ile Trp Lys Asn Glu Gln Lys Gly Glu Lys Ile Pro Arg Cys Leu
 435 440 445

Pro Val Cys Gly Lys Pro Val Asn Pro Val Glu Gln Arg Gln Gln Ile
 450 455 460

Ile Gly Gly Gln Lys Ala Lys Met Gly Asn Phe Pro Trp Gln Val Phe

465 470 475 480

Thr Asn Ile His Gly Arg Gly Gly Gly Ala Leu Leu Gly Asp Arg Trp
 485 490 495

Ile Leu Thr Ala Ala His Thr Leu Tyr Pro Lys Glu His Glu Ala Gln
 500 505 510

Ser Asn Ala Ser Leu Asp Val Phe Leu Gly His Thr Asn Val Glu Glu
 515 520 525

Leu Met Lys Leu Gly Asn His Pro Ile Arg Arg Val Ser Val His Pro
 530 535 540

Asp Tyr Arg Gln Asp Glu Ser Tyr Asn Phe Glu Gly Asp Ile Ala Leu
 545 550 555 560

Leu Glu Leu Glu Asn Ser Val Thr Leu Gly Pro Asn Leu Leu Pro Ile
 565 570 575

Cys Leu Pro Asp Asn Asp Thr Phe Tyr Asp Leu Gly Leu Met Gly Tyr
 580 585 590

Val Ser Gly Phe Gly Val Met Glu Glu Lys Ile Ala His Asp Leu Arg
 595 600 605

Phe Val Arg Leu Pro Val Ala Asn Pro Gln Ala Cys Glu Asn Trp Leu
 610 615 620

Arg Gly Lys Asn Arg Met Asp Val Phe Ser Gln Asn Met Phe Cys Ala
 625 630 635 640

Gly His Pro Ser Leu Lys Gln Asp Ala Cys Gln Gly Asp Ala Gly Gly
 645 650 655

Val Phe Ala Val Arg Asp Pro Asn Thr Asp Arg Trp Val Ala Thr Gly
 660 665 670

Ile Val Ser Trp Gly Ile Gly Cys Ser Arg Gly Tyr Gly Phe Tyr Thr
 675 680 685

Lys Val Leu Asn Tyr Val Asp Trp Ile Lys Lys Glu Met Glu Glu Glu
 690 695 700

Asp
 705

<210> 33
 <211> 688
 <212> PRT
 <213> *Cynomolgus macaque*

<400> 33

Met Trp Cys Ile Ile Leu Phe Ser Leu Leu Ala Trp Val Tyr Ala Glu
 1 5 10 15

Pro Thr Met Tyr Gly Glu Ile Leu Ser Pro Asn Tyr Pro Gln Ala Tyr
 20 25 30

Pro Ser Glu Val Glu Lys Ser Trp Asp Ile Glu Val Pro Glu Gly Tyr
 35 40 45

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

Cys Ala Tyr Asp Ser Val Gln Ile Met Ser Gly Asp Ile Glu Glu Gly
 65 70 75 80

Arg Leu Cys Gly Gln Arg Thr Ser Asn Asn Pro His Ser Pro Ile Val
 85 90 95

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

Asp Phe Ser Asn Glu Glu Arg Phe Thr Gly Phe Ala Ala Tyr Tyr Val
 115 120 125

Ala Thr Asp Ile Asn Glu Cys Thr Asp Phe Val Asp Ala Pro Cys Ser
 130 135 140

His Phe Cys Asn Asn Phe Ile Gly Gly Tyr Phe Cys Ser Cys Pro Pro
 145 150 155 160

Glu Tyr Phe Leu His Asp Asp Met Lys Asn Cys Gly Val Asn Cys Ser
 165 170 175

Gly Asp Val Phe Thr Ala Leu Ile Gly Glu Ile Ala Ser Pro Asn Tyr
 180 185 190

Pro Lys Pro Tyr Pro Glu Asn Ser Arg Cys Glu Tyr Gln Ile Arg Leu
 195 200 205

Glu Lys Gly Phe Gln Val Val Val Thr Val Arg Arg Glu Asp Phe Asp
 210 215 220

Val Glu Pro Ala Asp Ser Glu Gly Asn Cys Leu Asp Ser Leu Val Phe
 225 230 235 240

Val Ala Gly Asp Gln Gln Phe Gly Pro Tyr Cys Gly Arg Gly Phe Pro
 245 250 255

Gly Pro Leu Asn Ile Glu Thr Lys Ser Asn Ala Leu Asp Ile Ile Phe
 260 265 270

Gln Thr Asp Leu Thr Gly Gln Asn Lys Gly Trp Lys Leu Arg Tyr His
 275 280 285

Gly Asp Pro Met Pro Cys Pro Lys Glu Glu Thr Pro Thr Ser Val Trp
 290 295 300

Glu Pro Ala Lys Ala Lys Tyr Val Phe Arg Asp Val Val Arg Ile Thr
 305 310 315 320

Cys Leu Asp Gly Phe Glu Val Val Glu Gly Arg Val Gly Ala Thr Ser
325 330 335

Phe His Ser Thr Cys Gln Ser Asn Gly Lys Trp Ser Asn Ser Lys Leu
340 345 350

Lys Cys Gln Pro Val Asp Cys Gly Ile Pro Glu Ser Ile Glu Asn Gly
355 360 365

Lys Val Glu Asp Pro Glu Ser Thr Leu Phe Gly Ser Val Thr Arg Tyr
370 375 380

Thr Cys Glu Glu Pro Tyr Tyr Tyr Met Glu Asn Gly Gly Asn Gly Gln
385 390 395 400

Tyr His Cys Ala Ser Asn Gly Ser Trp Val Asn Glu Ala Leu Ser Pro
405 410 415

Glu Leu Pro Lys Cys Val Pro Val Cys Gly Val Pro Arg Glu Pro Phe
420 425 430

Glu Gly Lys Gln Arg Ile Ile Gly Gly Ser Asp Ala Asp Ile Lys Asn
435 440 445

Phe Pro Trp Gln Val Phe Phe Asp Asn Pro Trp Ala Gly Gly Ala Leu
450 455 460

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

Gln Glu Pro Thr Met Tyr Val Gly Ser Thr Ser Val Gln Thr Ser Arg
485 490 495

Leu Ala Lys Ser Lys Met Leu Thr Ser Glu Arg Val Phe Ile His Pro
500 505 510

Gly Trp Lys Leu Leu Glu Val Pro Glu Ala Arg Thr Asn Phe Asp Asn
515 520 525

Asp Ile Ala Leu Val Gln Leu Lys Asp Pro Val Lys Met Gly Pro Thr
 530 535 540

Val Ala Pro Ile Cys Leu Pro Gly Thr Ser Ser Asp Tyr Asn Leu Met
 545 550 555 560

Asp Gly Asp Leu Gly Leu Ile Ala Gly Trp Gly Arg Thr Glu Lys Arg
 565 570 575

Asp Arg Ala Leu Arg Leu Lys Ala Ala Arg Leu Pro Val Ala Pro Leu
 580 585 590

Arg Lys Cys Arg Glu Val Lys Val Glu Asn Pro Lys Ala Asp Ala Gly
 595 600 605

Ala Tyr Val Phe Thr Pro Asn Met Ile Cys Ala Gly Gly Glu Lys Gly
 610 615 620

Met Asp Ser Cys Lys Gly Asp Ser Gly Gly Ala Phe Ala Val Gln Asp
 625 630 635 640

Pro Asn Asp Lys Ala Lys Phe Tyr Val Ala Gly Leu Val Ser Trp Gly
 645 650 655

Pro Gln Cys Gly Thr Tyr Gly Leu Tyr Thr Arg Val Gln Asn Tyr Val
 660 665 670

Asp Trp Ile Lys Lys Thr Met Gln Glu Asn Ser Thr Pro Ser Lys Asp
 675 680 685

<210> 34

<211> 705

<212> PRT

<213> Cynomolgus macaque

<400> 34

Met Trp Leu Leu Tyr Leu Leu Val Pro Ala Leu Phe Cys Arg Ala Gly

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

Glu Tyr Pro Arg Ser Tyr Pro Pro Asp Leu Arg Cys Asn Tyr Ser Ile
 210 215 220

Arg Val Glu Arg Gly Leu Thr Leu His Leu Lys Phe Leu Glu Pro Phe
 225 230 235 240

Glu Ile Asp Asp His Gln Gln Val His Cys Pro Tyr Asp Gln Leu Gln
 245 250 255

Ile Tyr Ala Asn Gly Lys Asn Ile Gly Glu Phe Cys Gly Lys Gln Arg
 260 265 270

Pro Pro Asp Phe Asp Thr Ser Ser Asn Ala Val Asp Leu Leu Phe Phe
 275 280 285

Thr Asp Glu Ser Gly Asp Ser Arg Gly Trp Lys Leu Arg Tyr Thr Thr
 290 295 300

Glu Ile Ile Lys Cys Pro Gln Pro Lys Thr Leu Asp Glu Phe Thr Val
 305 310 315 320

Ile Gln Asn Leu Gln Pro Gln Tyr Gln Phe Arg Asp Tyr Phe Ile Ala
 325 330 335

Thr Cys Lys Leu Gly Tyr Gln Leu Ile Glu Gly Asn Gln Val Leu His
 340 345 350

Ser Phe Thr Ala Val Cys Gln Asp Asp Gly Thr Trp His Arg Ala Met
 355 360 365

Pro Arg Cys Lys Ile Lys Asp Cys Gly Gln Pro Arg Asn Leu Pro Asn
 370 375 380

Gly Ala Phe Arg Tyr Thr Thr Thr Met Gly Val Asn Thr Tyr Lys Ala
 385 390 395 400

Arg Ile Gln Tyr Tyr Cys His Glu Pro Tyr Tyr Lys Met Gln Thr Arg

405

410

415

Ala Gly Ser Lys Glu Ser Glu Gln Gly Leu Tyr Thr Cys Thr Ala Gln
 420 425 430

Gly Ile Trp Lys Asn Glu Gln Lys Gly Glu Lys Ile Pro Arg Cys Leu
 435 440 445

Pro Val Cys Gly Lys Pro Val Asn Pro Val Glu Gln Arg Gln Gln Ile
 450 455 460

Ile Gly Gly Gln Lys Ala Lys Met Gly Asn Phe Pro Trp Gln Val Phe
 465 470 475 480

Thr Asn Ile His Gly Arg Gly Gly Gly Ala Leu Leu Gly Asp Arg Trp
 485 490 495

Ile Leu Thr Ala Ala His Thr Leu Tyr Pro Lys Glu His Glu Ala Gln
 500 505 510

Ser Asn Ala Ser Leu Asp Val Phe Leu Gly His Thr Asn Val Glu Glu
 515 520 525

Leu Met Lys Leu Ala Asn His Pro Ile Arg Arg Val Ser Ile His Pro
 530 535 540

Asp Tyr Arg Gln Asp Glu Ser His Asn Phe Glu Gly Asp Ile Ala Leu
 545 550 555 560

Leu Glu Leu Glu Asn Ser Val Thr Leu Gly Pro Asn Leu Leu Pro Ile
 565 570 575

Cys Leu Pro Asp Asn Glu Thr Phe Tyr Asp Leu Gly Leu Met Gly Tyr
 580 585 590

Val Ser Gly Phe Gly Val Met Glu Glu Lys Ile Ala His Asp Leu Arg
 595 600 605

Phe Val Arg Leu Pro Val Ala Asn Arg Lys Asp Cys Glu Thr Trp Leu
 610 615 620

Arg Gly Lys Asn Arg Leu Asp Val Phe Ser Gln Asn Met Phe Cys Ala
 625 630 635 640

Gly His Pro Ser Leu Lys Gln Asp Ala Cys Gln Gly Asp Ala Gly Gly
 645 650 655

Val Phe Ala Val Arg Asp Pro Asn Thr Asp Arg Trp Ile Ala Thr Gly
 660 665 670

Ile Val Ser Trp Gly Ile Gly Cys Ser Lys Gly Tyr Gly Phe Tyr Thr
 675 680 685

Lys Val Leu Asn Tyr Val Asp Trp Ile Lys Lys Glu Met Glu Glu Glu
 690 695 700

Asp
 705

<210> 35
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 35

Gln Ser Leu 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 Ala Tyr Ala
 20 25 30

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 36

<211> 112

<212> PRT

<213> Homo sapiens

<400> 36

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

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

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

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

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

Cys Asp Asp Ala Ala Ala Tyr Tyr Cys Gln Gly Glu Phe Ser Cys Ser
85 90 95

Ser Ala Asp Cys Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys

34

100

105

110

<210> 37
<211> 120
<212> PRT
<213> Homo sapiens

<400> 37

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

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

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

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

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Arg Gly Arg Ser Val Asn Tyr Asn Ser Asp Phe Lys Leu Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 38
<211> 113
<212> PRT
<213> Homo sapiens

<400> 38

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

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

Lys

<210> 39
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 39

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

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

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Gly Arg Ser Val Asn Tyr Asn Ser Asp Phe His Leu Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 40

<211> 120

<212> PRT

<213> Homo sapiens

<400> 40

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

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

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

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

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Gly Arg Ser Lys Asn Tyr Asn Ser Asp Phe His Leu Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 41
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 41

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

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

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

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

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Gly Arg Ser Val Asn Tyr Asn Ser Asp Phe His Leu Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 42
 <211> 113

<212> PRT

<213> Homo sapiens

<400> 42

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	Gln	Ala	Ser	Gln	Ser	Leu	His	Asp	Lys
			20					25					30		

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

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

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

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

Ser	Ser	Ala	Asp	Cys	Asn	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110		

Lys

<210> 43

<211> 113

<212> PRT

<213> Homo sapiens

<400> 43

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	Gln	Ala	Ser	Gln	Ser	Leu	His	Asp	Lys
			20					25					30		

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 44

<211> 113

<212> PRT

<213> Homo sapiens

<400> 44

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu

40

65 70 75 80

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 45
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 45

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 46
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 46

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 47
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 47

42

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 48

<211> 113

<212> PRT

<213> Homo sapiens

<400> 48

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 49

<211> 113

<212> PRT

<213> Homo sapiens

<400> 49

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 50
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 50

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 51

45

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

<400> 51

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 52
<211> 113
<212> PRT
<213> Homo sapiens

<400> 52

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 Gln Ala Ser Gln Ser Leu His Asp Lys

46
 20 25 30
 Lys Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
 35 40 45
 Leu Ile Tyr Gly Ala Ser Thr Leu Glu Ser Gly Val Pro Ser Arg Phe
 50 55 60
 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
 65 70 75 80
 Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Glu Phe Ser Asn
 85 90 95
 Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 53
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 53

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

47

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 54
<211> 113
<212> PRT
<213> Homo sapiens

<400> 54

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 55
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 55

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 56
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 56

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 57

<211> 113

<212> PRT

<213> Homo sapiens

<400> 57

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 58

<211> 113

<212> PRT

<213> Homo sapiens

<400> 58

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Glu Phe Ser Val

51

85

90

95

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 59

<211> 113

<212> PRT

<213> Homo sapiens

<400> 59

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 60
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 60

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 61
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 61

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Ala Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 62

<211> 113

<212> PRT

<213> Homo sapiens

<400> 62

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Asp Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 63

<211> 113

<212> PRT

<213> Homo sapiens

<400> 63

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Glu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 64
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 64

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Phe Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 65
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 65

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	Gln	Ala	Ser	Gln	Ser	Leu	His	Asp	Lys
			20				25						30		

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

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

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

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

Ser	Ser	Ala	Asp	Gly	Asn	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110		

Lys

<210> 66

<211> 113

<212> PRT

<213> Homo sapiens

<400> 66

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	Gln	Ala	Ser	Gln	Ser	Leu	His	Asp	Lys
			20				25						30		

Lys	Asn	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro	Pro	Lys	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

57

35

40

45

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

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

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

Ser Ser Ala Asp His Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 67

<211> 113

<212> PRT

<213> Homo sapiens

<400> 67

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Ile Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 68

<211> 113

<212> PRT

<213> Homo sapiens

<400> 68

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Lys Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 69
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 69

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 70
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 70

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

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

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

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

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

Ser Ser Ala Asp Met Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

<210>	71
<211>	113
<212>	PRT
<213>	Homo sapiens

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Asn Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 72

<211> 113

<212> PRT

<213> Homo sapiens

<400> 72

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Pro Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile

62

100

105

110

Lys

<210> 73

<211> 113

<212> PRT

<213> Homo sapiens

<400> 73

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Gln Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 74

<211> 113

<212> PRT

<213> Homo sapiens

<400> 74

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

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

Lys

<210> 75

<211> 113

<212> PRT

<213> Homo sapiens

<400> 75

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

64

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

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

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

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

Ser Ser Ala Asp Ser Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 76

<211> 113

<212> PRT

<213> Homo sapiens

<400> 76

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Thr Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 77

<211> 113

<212> PRT

<213> Homo sapiens

<400> 77

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Val Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 78
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 78

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Trp Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 79
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 79

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Tyr Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 80

<211> 113

<212> PRT

<213> Homo sapiens

<400> 80

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

Leu Ile Tyr Gly Ala Ser Thr Leu Glu Ser Gly Val Pro Ser Arg Phe

68

50

55

60

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

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 81

<211> 113

<212> PRT

<213> Homo sapiens

<400> 81

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 82
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 82

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 83
 <211> 113
 <212> PRT

<213> Homo sapiens

<400> 83

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 84

<211> 113

<212> PRT

<213> Homo sapiens

<400> 84

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

<210>	85
<211>	113
<212>	PRT
<213>	Homo sapiens

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

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

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

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

Ser Ser Ala Asp Gln Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 86

<211> 113

<212> PRT

<213> Homo sapiens

<400> 86

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

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

Lys

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

<400> 87

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 88
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 88

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

74

1 5 10 15

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Met Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 89
<211> 113
<212> PRT
<213> Homo sapiens

<400> 89

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

75

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

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

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 90

<211> 113

<212> PRT

<213> Homo sapiens

<400> 90

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Tyr Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 91
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 91

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

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

Lys

<210> 92
 <211> 113

<212> PRT

<213> Homo sapiens

<400> 92

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	Gln	Ala	Ser	Gln	Ser	Leu	His	Asp	Lys
			20					25					30		

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

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

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

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

Ser	Ser	Ala	Asp	Phe	Asn	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
			100					105					110		

Lys

<210> 93

<211> 113

<212> PRT

<213> Homo sapiens

<400> 93

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	Gln	Ala	Ser	Gln	Ser	Leu	His	Asp	Lys
			20					25					30		

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

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

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

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

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

Lys

<210> 94

<211> 113

<212> PRT

<213> Homo sapiens

<400> 94

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu

79

65 70 75 80

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 95

<211> 113

<212> PRT

<213> Homo sapiens

<400> 95

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Val Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 96
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 96

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 Gln Ala Ser Gln Ser Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Ala Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 97
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 97

81

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 Gln Ala Ser Gln Ser Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Val Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 98

<211> 120

<212> PRT

<213> Homo sapiens

<400> 98

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

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

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

Gly Leu Ile Tyr Gly Ser Gly His Glu Phe Tyr Ala Ser Trp Ala Glu
50 55 60

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Arg Gly Arg Ser Lys Asn Tyr Val Ser Gly Phe His Leu Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 99

<211> 120

<212> PRT

<213> Homo sapiens

<400> 99

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

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

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

Gly Leu Ile Tyr Gly Ser Gly His Glu Phe Tyr Ala Ser Trp Ala Glu
50 55 60

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Arg Gly Arg Ser Lys Asn Tyr Val Ser Gly Phe His Leu Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 100

<211> 120

<212> PRT

<213> Homo sapiens

<400> 100

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

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

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

Gly Leu Ile Tyr Gly Ser Gly His Glu Phe Tyr Ala Ser Trp Ala Glu
 50 55 60

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Gly Arg Ser Lys Asn Tyr Asn Ser Asp Phe His Leu Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 101

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

<400> 101

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 Gln Ala Ser Gln Ile Leu His Asp Lys
 20 25 30

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

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

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

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

Glu Ser Ala Asp Leu Asn Gln Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 102
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 102

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 Gln Ala Ser Gly Ile Leu His Asp Lys

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

Lys

<210> 103
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 103

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 Gln Ala Gln Gln Ile Leu His Asp Lys
 20 25 30

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

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

86

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

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

Glu Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 104

<211> 113

<212> PRT

<213> Homo sapiens

<400> 104

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 Gln Ala Ser Gln Ile Leu His Asp Lys
20 25 30

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

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

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

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 105
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 105

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 Gln Ala Asn Gln Ile Leu His Asp Lys
 20 25 30

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

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

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

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

Ser Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 106
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 106

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 Gln Ala Asn Gln Ile Leu His Asp Lys
 20 25 30

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

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

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

Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gly Glu Phe Pro Tyr
 85 90 95

Glu Ser Ala Asp Leu Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 107

<211> 328

<212> PRT

<213> Homo sapiens

<400> 107

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 Leu Gly Gly Pro Ser 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 Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 210 215 220

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

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

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

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

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

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

Gln Lys Ser Leu Ser Leu Ser Pro
 325

<210> 108

<211> 328

<212> PRT

<213> Homo sapiens

<400> 108

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

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

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

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

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

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

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Trp Asn Gly Pro Ser 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 Asp 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 Leu Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

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

Thr Ala Leu Pro Lys Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

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

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

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

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe

275

280

285

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

Val Phe Ser Cys Ser Val Leu His Glu Ala Leu His Ala His Thr Thr
 305 310 315 320

Arg Lys Glu Leu Ser Leu Ser Pro
 325

<210> 109

<211> 328

<212> PRT

<213> Homo sapiens

<400> 109

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

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

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

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

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

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

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 100 105 110

Pro Ala Pro Glu Tyr Leu Gly Gly Asp Ser Val Phe Leu Phe Pro Pro
 115 120 125

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

Val Val Ile 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 Pro Val Leu
 180 185 190

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

Lys Ala Leu Pro Lys Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 210 215 220

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

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

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

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

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

Val Phe Ser Cys Ser Val Leu His Glu Ala Leu His Ala His Thr Thr
 305 310 315 320

Arg Lys Glu Leu Ser Leu Ser Pro
325

<210> 110
<211> 328
<212> PRT
<213> Homo sapiens

<400> 110

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 Leu Gly Gly Pro Ser 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

95

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 Glu Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

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

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

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

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

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

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

Gln Lys Ser Leu Ser Leu Ser Pro
325

<210> 111

<211> 107

<212> PRT

<213> Homo sapiens

<400> 111

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> 112

<211> 107

<212> PRT

<213> Homo sapiens

<400> 112

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> 113

<211> 118

<212> PRT

<213> Homo sapiens

<400> 113

Glu Val Met Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15

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

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

Ala Thr Ile Ser Ser Gly Gly Ser His Thr Tyr Tyr Leu Asp Ser Val
 50 55 60

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

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

Ala Arg Leu Phe Thr Gly Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
115

<210> 114
<211> 109
<212> PRT
<213> Homo sapiens

<400> 114

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

Glu Arg Ala Thr Leu Ser Cys Thr Ala Ser Ser Ser Val Ser Ser Ser
20 25 30

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

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

Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

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

Pro Ile Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 115
<211> 120
<212> PRT
<213> Homo sapiens

<400> 115

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

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

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

Gly Leu Ile Tyr Gly Ser Gly His Thr Phe Tyr Ala Ser Trp Ala Ser
 50 55 60

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Gly Arg Ser Val Asn Tyr Val Ser Gly Phe His Leu Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120