

LISTADO DE SECUENCIAS

<110> Teva Pharmaceuticals Australia Pty Ltd

<120> Anticuerpos que se unen específicamente a TL1A

<130> 185704-3019

<160> 71

<170> PatentIn versión 3.5

<210> 1

<211> 119

<212> PRT

<213> Homo sapiens

<400> 1

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 Thr Phe Thr Ser Tyr
20 25 30

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

Gly Trp Leu Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Arg Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Glu Val Pro Glu Thr Ala Ala Phe Glu Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 2

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2

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

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

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

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu
65 70 75 80

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 3

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3

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 Thr Phe Thr Ser Tyr
20 25 30

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

Gly Trp Leu Asn Pro Asn Ser Gly Tyr Thr Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Arg Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Glu Val Pro Glu Thr Ala Ala Phe Glu Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 4
<211> 111
<212> PRT
<213> Homo sapiens

<400> 4

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

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

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

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu
65 70 75 80

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 5
<211> 111

<212> PRT
<213> Homo sapiens

<400> 5

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

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

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

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu
65 70 75 80

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 6
<211> 111
<212> PRT
<213> Homo sapiens

<400> 6

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

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

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

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu
65 70 75 80

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 7
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<212> PRT
<213> Homo sapiens

<400> 7

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

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

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

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu
65 70 75 80

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 8
<211> 111
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<213> Homo sapiens

<400> 8

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

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

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

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu
65 70 75 80

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 9

<211> 111

<212> PRT

<213> Homo sapiens

<400> 9

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

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

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

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu

65					70					75				80	
Leu	Pro	Glu	Asp	Glu	Gly	Asp	Tyr	Tyr	Cys	Gln	Ser	Tyr	Asp	Gly	Thr
				85					90					95	

Leu	Ser	Ala	Leu	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly
			100					105					110	

<210> 10
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 <212> PRT
 <213> Homo sapiens

<400> 10

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

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

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

Leu	Ile	Glu	Gly	Tyr	Tyr	Asn	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe
	50					55					60				

Ser	Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Thr	Ile	Thr	Gly	Leu
65					70					75				80	

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

Leu	Ser	Ala	Leu	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly
			100					105					110	

<210> 11
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 <212> PRT
 <213> Homo sapiens

<400> 11

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln

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

<210> 12
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 <212> PRT
 <213> Homo sapiens

<400> 12

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

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 13
<211> 111
<212> PRT
<213> Homo sapiens

<400> 13

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

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

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

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu
65 70 75 80

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 14
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> Xaa
<222> (32)..(32)
<223> G o A

<220>
<221> Xaa
<222> (33)..(33)
<223> L o S o Q

<220>
<221> Xaa
<222> (36)..(36)
<223> H o L

<220>
<221> Xaa
<222> (93)..(93)
<223> Y o F o W

<400> 14

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

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

Xaa Gly Val Xaa Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu
65 70 75 80

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 15
<211> 10
<212> PRT
<213> Homo sapiens

<400> 15

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

<210> 16
<211> 10
<212> PRT
<213> Homo sapiens

<400> 16

Trp Leu Asn Pro Asn Ser Gly Asn Thr Gly
1 5 10

<210> 17
<211> 10
<212> PRT
<213> Homo sapiens

<400> 17

Glu Val Pro Glu Thr Ala Ala Phe Glu Tyr
1 5 10

<210> 18
<211> 14
<212> PRT
<213> Homo sapiens

<400> 18

Thr Ser Ser Ser Ser Asp Ile Gly Ala Gly Leu Gly Val His
1 5 10

<210> 19
<211> 7
<212> PRT
<213> Homo sapiens

<400> 19

Gly Tyr Tyr Asn Arg Pro Ser
1 5

<210> 20
<211> 10
<212> PRT
<213> Homo sapiens

<400> 20

Gln Ser Tyr Asp Gly Thr Leu Ser Ala Leu

1 5 10

<210> 21
<211> 10
<212> PRT
<213> Homo sapiens

<400> 21

Trp Leu Asn Pro Asn Ser Gly Tyr Thr Gly
1 5 10

<210> 22
<211> 10
<212> PRT
<213> Homo sapiens

<400> 22

Gln Ser Trp Asp Gly Thr Leu Ser Ala Leu
1 5 10

<210> 23
<211> 14
<212> PRT
<213> Homo sapiens

<400> 23

Thr Ser Ser Ser Ser Asp Ile Gly Ala Ala Leu Gly Val His
1 5 10

<210> 24
<211> 14
<212> PRT
<213> Homo sapiens

<400> 24

Thr Ser Ser Ser Ser Asp Ile Gly Ala Gly Ser Gly Val His
1 5 10

<210> 25
<211> 14
<212> PRT
<213> Homo sapiens

<400> 25

Thr Ser Ser Ser Ser Asp Ile Gly Ala Gly Gln Gly Val His
1 5 10

<210> 26
<211> 14
<212> PRT
<213> Homo sapiens

<400> 26

Thr Ser Ser Ser Ser Asp Ile Gly Ala Gly Leu Gly Val Leu
1 5 10

<210> 27
<211> 10
<212> PRT
<213> Homo sapiens

<400> 27

Gln Ser Phe Asp Gly Thr Leu Ser Ala Leu
1 5 10

<210> 28
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> Xaa
<222> (8)..(8)
<223> N o Y

<400> 28

Trp Leu Asn Pro Asn Ser Gly Xaa Thr Gly
1 5 10

<210> 29
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> Xaa
<222> (10)..(10)
<223> G o A

<220>
<221> Xaa
<222> (11)..(11)
<223> L o S o Q

<220>
<221> Xaa
<222> (14)..(14)
<223> H o L

<400> 29

Thr Ser Ser Ser Ser Asp Ile Gly Ala Xaa Xaa Gly Val Xaa
1 5 10

<210> 30
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> Xaa
<222> (3)..(3)
<223> Y o W o F

<400> 30

Gln Ser Xaa Asp Gly Thr Leu Ser Ala Leu
1 5 10

<210> 31
<211> 180
<212> PRT
<213> Homo sapiens

<400> 31

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

Leu Arg Ala Asp Gly Asp Lys Pro Arg Ala His Leu Thr Val Val Arg
20 25 30

Gln Thr Pro Thr Gln His Phe Lys Asn Gln Phe Pro Ala Leu His Trp
35 40 45

Glu His Glu Leu Gly Leu Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr
50 55 60

Asn Lys Phe Leu Leu Ile Pro Glu Ser Gly Asp Tyr Phe Ile Tyr Ser
65 70 75 80

Gln Val Thr Phe Arg Gly Met Thr Ser Glu Cys Ser Glu Ile Arg Gln
85 90 95

Ala Gly Arg Pro Asn Lys Pro Asp Ser Ile Thr Val Val Ile Thr Lys
100 105 110

Val Thr Asp Ser Tyr Pro Glu Pro Thr Gln Leu Leu Met Gly Thr Lys
115 120 125

Ser Val Cys Glu Val Gly Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly
130 135 140

Ala Met Phe Ser Leu Gln Glu Gly Asp Lys Leu Met Val Asn Val Ser
145 150 155 160

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

Ala Phe Leu Leu
180

<210> 32
<211> 180
<212> PRT
<213> Homo sapiens

<400> 32

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

Leu Arg Ala Asp Gly Asp Lys Pro Arg Ala His Leu Thr Val Val Arg
20 25 30

Gln Thr Pro Thr Gln His Phe Lys Asn Gln Phe Pro Ala Leu His Trp
35 40 45

Glu His Glu Leu Gly Leu Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr

50		55		60											
Asn	Lys	Phe	Leu	Leu	Ile	Pro	Glu	Ser	Gly	Asp	Tyr	Phe	Ile	Tyr	Ser
65					70					75					80
Gln	Val	Thr	Phe	Ala	Gly	Met	Thr	Ser	Glu	Cys	Ser	Glu	Ile	Arg	Gln
				85					90					95	
Ala	Gly	Arg	Pro	Asn	Lys	Pro	Asp	Ser	Ile	Thr	Val	Val	Ile	Thr	Lys
			100					105					110		
Val	Thr	Asp	Ser	Tyr	Pro	Glu	Pro	Thr	Gln	Leu	Leu	Met	Gly	Thr	Lys
		115						120				125			
Ser	Val	Cys	Glu	Val	Gly	Ser	Asn	Trp	Phe	Gln	Pro	Ile	Tyr	Leu	Gly
	130					135					140				
Ala	Met	Phe	Ser	Leu	Gln	Glu	Gly	Asp	Lys	Leu	Met	Val	Asn	Val	Ser
145					150					155					160
Asp	Ile	Ser	Leu	Val	Asp	Tyr	Thr	Lys	Glu	Asp	Lys	Thr	Phe	Phe	Gly
				165					170					175	
Ala	Phe	Leu	Leu												
			180												

<210> 33
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 33

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

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

Pro Thr Gln His Phe Lys Asn Gln Phe Pro Ala Leu His Trp Glu His
65 70 75 80

Glu Leu Gly Leu Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr Asn Lys
85 90 95

Phe Leu Leu Ile Pro Glu Ser Gly Asp Tyr Phe Ile Tyr Ser Gln Val
100 105 110

Thr Phe Arg Gly Met Thr Ser Glu Cys Ser Glu Ile Arg Gln Ala Gly
115 120 125

Arg Pro Asn Lys Pro Asp Ser Ile Thr Val Val Ile Thr Lys Val Thr
130 135 140

Asp Ser Tyr Pro Glu Pro Thr Gln Leu Leu Met Gly Thr Lys Ser Val
145 150 155 160

Cys Glu Val Gly Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly Ala Met
165 170 175

Phe Ser Leu Gln Glu Gly Asp Lys Leu Met Val Asn Val Ser Asp Ile
180 185 190

Ser Leu Val Asp Tyr Thr Lys Glu Asp Lys Thr Phe Phe Gly Ala Phe
195 200 205

Leu Leu
210

<210> 34
<211> 180
<212> PRT
<213> Macaca fascicularis

<400> 34

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

Leu Arg Ala Asp Gly Asp Lys Pro Arg Ala His Leu Thr Val Val Arg
20 25 30

Gln Thr Pro Thr Gln His Leu Lys Asn Gln Phe Pro Ala Leu His Trp
35 40 45

Glu His Glu Leu Gly Leu Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr
50 55 60

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

Gln Val Thr Phe Arg Gly Met Thr Ser Glu Cys Ser Glu Ile Arg Gln
85 90 95

Ala Gly Arg Pro Asn Lys Pro Asp Ser Ile Thr Val Val Ile Thr Lys
100 105 110

Val Thr Asp Ser Tyr Pro Glu Pro Thr Gln Leu Leu Met Gly Thr Lys
115 120 125

Ser Val Cys Glu Val Gly Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly
130 135 140

Ala Met Phe Ser Leu Gln Glu Gly Asp Lys Leu Met Val Asn Val Ser
145 150 155 160

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

Ala Phe Leu Leu
180

<210> 35
<211> 180
<212> PRT
<213> Mus musculus

<400> 35

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

Tyr Ser Pro Pro Arg Gly Lys Pro Arg Ala His Leu Thr Ile Lys Lys
20 25 30

Gln Thr Pro Ala Pro His Leu Lys Asn Gln Leu Ser Ala Leu His Trp
35 40 45

Glu His Asp Leu Gly Met Ala Phe Thr Lys Asn Gly Met Lys Tyr Ile
50 55 60

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

Gln Ile Thr Phe Arg Gly Thr Thr Ser Val Cys Gly Asp Ile Ser Arg
85 90 95

Gly Arg Arg Pro Asn Lys Pro Asp Ser Ile Thr Met Val Ile Thr Lys
100 105 110

Val Ala Asp Ser Tyr Pro Glu Pro Ala Arg Leu Leu Thr Gly Ser Lys
115 120 125

Ser Val Cys Glu Ile Ser Asn Asn Trp Phe Gln Ser Leu Tyr Leu Gly
130 135 140

Ala Thr Phe Ser Leu Glu Glu Gly Asp Arg Leu Met Val Asn Val Ser
145 150 155 160

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

Ala Phe Leu Leu
180

<210> 36
<211> 180
<212> PRT
<213> Rattus norvegicus

<400> 36

Phe Pro Thr Val Thr Glu Glu Arg Ser Ala Pro Ser Ala Gln Pro Val

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

<210> 37
 <211> 179
 <212> PRT
 <213> Cavia porcellus
 <400> 37

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

Leu Arg Asp Asp Arg Asp Lys Pro Arg Ala His Leu Thr Val Val Arg
20 25 30

Gln Thr Pro Thr Gln His Leu Lys Asn Gln Phe Pro Ala Leu His Trp
35 40 45

Glu His Glu Leu Gly Leu Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr
50 55 60

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

Gln Ile Thr Phe Arg Gly Thr Thr Ser Glu Cys Gly Ile Ser Pro Gly
85 90 95

Arg Gln Gln Asn Lys Pro Asp Ser Ile Phe Val Val Ile Thr Lys Val
100 105 110

Thr Asp Ser Tyr Pro Glu Pro Ser Gln Leu Leu Thr Gly Thr Lys Ser
115 120 125

Val Cys Glu Ile Ser Ser Asn Trp Phe Gln Pro Leu Tyr Leu Gly Ala
130 135 140

Met Phe Ser Leu Gln Glu Gly Asp Lys Leu Met Val Asn Val Ser Asp
145 150 155 160

Ile Ser Leu Val Asp Tyr Thr Lys Glu Asp Lys Thr Phe Phe Gly Ala
165 170 175

Phe Leu Leu

<210> 38
<211> 180
<212> PRT
<213> Felis catus

<400> 38

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

Pro Gly Ala Gly Gly Asp Lys Pro Arg Ala His Leu Thr Val Val Arg
20 25 30

Gln Thr Pro Thr Gln Pro Leu Lys Asn Gln Phe Pro Ala Leu His Trp
35 40 45

Glu His Glu Leu Gly Leu Ala Phe Ile Lys Asn Arg Met Asn Tyr Thr
50 55 60

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

Gln Val Thr Phe Arg Gly Thr Thr Ser Glu Cys Gly Glu Ile Arg Gln
85 90 95

Gly Ser Arg Leu Asn Lys Pro Asp Ser Ile Ile Val Val Ile Thr Lys
100 105 110

Val Thr Asp Ser Tyr Pro Glu Pro Thr Gln Leu Leu Met Gly Thr Lys
115 120 125

Ser Val Cys Glu Val Gly Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly
130 135 140

Ala Met Phe Ser Leu Gln Glu Gly Asp Lys Leu Met Val Asn Val Ser
145 150 155 160

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

Ala Phe Leu Leu
180

<210> 39

<211> 180

<212> PRT

<213> Sus scrofa

<400> 39

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

Pro Gly Ala Gly Arg Asp Lys Pro Arg Ala His Leu Thr Val Val Arg
20 25 30

Gln Thr Ser Thr Glu Pro Leu Lys Asn Gln Phe Pro Ala Leu His Trp
35 40 45

Glu His Glu Leu Gly Leu Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr
50 55 60

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

Gln Val Thr Phe Arg Gly Thr Thr Ser Glu Cys Gly Glu Ile Ser Gln
85 90 95

Glu Arg Arg Leu Asn Lys Pro Asp Ser Ile Ile Val Val Ile Thr Lys
100 105 110

Val Thr Asp Ser Tyr Pro Glu Pro Thr Gln Leu Leu Met Gly Thr Lys
115 120 125

Ser Val Cys Glu Ile Gly Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly
130 135 140

Ala Met Phe Ser Leu His Glu Gly Asp Lys Leu Met Val Asn Val Ser
145 150 155 160

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

Ala Phe Leu Leu
180

<210> 40

<211> 179

<212> PRT

<213> Oryctolagus cuniculus

<400> 40

Leu Lys Gly Arg Glu Phe Gly Pro Ser Gln Gln Arg Ala Tyr Met Pro
1 5 10 15

Leu Arg Ala Asp Gly Asn Lys Pro Arg Ala His Leu Thr Ala Val Lys
20 25 30

Gln Thr Pro Thr Gln Pro Leu Arg Asn His Phe Pro Ala Leu His Trp
35 40 45

Glu His Glu Leu Gly Leu Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr
50 55 60

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

Gln Val Thr Phe Arg Gly Thr Thr Ser Glu Cys Gly Val Ile Asn Gln
85 90 95

Arg Arg Arg Gln Thr Lys Pro Asp Ser Ile Val Val Val Ile Thr Lys
100 105 110

Val Thr Asp Asn Tyr Pro Glu Pro Ala Gln Leu Leu Thr Gly Thr Lys
115 120 125

Ser Val Cys Glu Met Gly Asn Trp Phe Gln Pro Ile Tyr Leu Gly Ala
130 135 140

Met Phe Ser Leu Glu Glu Gly Asp Lys Leu Met Val Asn Val Ser Asp
145 150 155 160

Val Ser Leu Val Asp Tyr Thr Lys Glu Asp Lys Thr Phe Phe Gly Ala
165 170 175

Phe Leu Leu

<210> 41

<211> 180

<212> PRT

<213> Canis familiaris

<400> 41

Pro Lys Gly Gln Glu Phe Gly His Ser His Gln Arg Ala Tyr Ala Ser
1 5 10 15

Pro Arg Ala Gly Gly Asp Lys Pro Arg Ala His Leu Thr Val Val Arg
20 25 30

Gln Ser Pro Thr Gln Pro Leu Glu Ser Leu Phe Pro Ala Leu His Trp
35 40 45

Glu His Glu Leu Gly Leu Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr
50 55 60

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

Gln Val Thr Phe Arg Gly Thr Thr Ser Glu Cys Gly Glu Ala Arg Gln
85 90 95

Gly Ser Arg Leu Asn Lys Pro Asp Ser Ile Ile Val Val Ile Thr Lys
100 105 110

Val Thr Asp Ser Tyr Pro Glu Pro Thr Gln Leu Leu Met Gly Thr Lys
115 120 125

Ser Val Cys Glu Val Gly Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly
130 135 140

Ala Met Phe Ser Leu Gln Glu Gly Asp Lys Leu Met Val Asn Val Ser
145 150 155 160

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

Ala Phe Leu Leu
180

<210> 42

<211> 330

<212> PRT

<213> Homo sapiens

<400> 42

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 Asp Glu		
225	230	240
Leu 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	320
Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys		
325	330	

<210> 43
 <211> 329
 <212> PRT
 <213> Homo sapiens

<400> 43

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 Asp Glu
225 230 235 240

Leu 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 Gly
325

<210> 44
<211> 330
<212> PRT
<213> Homo sapiens

<400> 44

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	Tyr	Ile	Thr	Arg	Glu	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	Asp	Glu
225					230					235					240
Leu	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	Gly	Lys						
				325					330						

<210> 45
<211> 327
<212> PRT
<213> Homo sapiens

<400> 45

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 Leu Gly Gly Pro Ser 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 Gly Lys
325

<210> 46
<211> 326
<212> PRT
<213> Homo sapiens

<400> 46

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	Leu	Gly	Gly	Pro	Ser	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 Gly
325

<210> 47
<211> 327
<212> PRT
<213> Homo sapiens

<400> 47

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 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Tyr Ile Thr Arg Glu 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 Gly Lys
325

<210> 48
<211> 105
<212> PRT
<213> Homo sapiens

<400> 48

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

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

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
35 40 45

Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
50 55 60

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
65 70 75 80

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
85 90 95

Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 49
<211> 357
<212> ADN
<213> Homo sapiens

<400> 49
caggtgcagc tgggtgcagtc tggggcggag gtgaagaagc ctggggcctc agtgaaggtc
60

tcctgcaagg cttctggata caccttcacc agttatgata tcaactgggt ggcacaggcc
120

cccggacaag ggcttgagtg gatgggatgg ctgaacccta acagtggtaa cacaggctat
180

gcacagaagt tccagggcag agtcaccatg accgcagatc gttccaccag cacagcctac
240

atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagagaagtg
300

cctgagacgg ccgcctttga gtactggggc cagggaaacc tggtcaccgt ctctca
357

<210> 50
<211> 333
<212> ADN
<213> Homo sapiens

<400> 50
cagagcgtgc tgacacagcc tccatccgtg tctggcgccc ctggccagag agtgaccatc
60

agctgcacca gcagcagcag cgacatcgga gccggcctgg gcgtgactg gtatcagcag
120

ctgcctggca ccgcccccaa gctgctgac gagggctact acaaccggcc cagcggcgtg
180

cccgaccggt ttagcggcag caagagcggc accagcgcca gcctgacaat caccggcctg
240

ctgcccagg acgagggcga ctactactgc cagagctacg acggcacct gagcgccctg
300

ttcggcggag gcaccaagct gaccgtccta ggt
333

<210> 51
<211> 357
<212> ADN
<213> Homo sapiens

<400> 51
caggtgcagc tgggtgcagtc cggcgccgag gtgaagaaac ccggcgctc cgtgaagggtg
60

tcctgcaagg ccagcggcta caccttcacc tcctacgaca tcaactgggt gaggcaggcc
120

cccgccagg gcctggagtg gatgggctgg ctgaacccca actccggcta caccggctac
180

gccagaagt tccagggcag ggtgaccatg accgccgaca ggtccacctc caccgcctac
240

atggagctgt ccagcctgag gtccgaggac accgccgtgt actattgcgc cagggaggtg
300

cccagaccg ctgccttcga gtactggggc cagggcaccc tggtgaccgt gtccagc
357

<210> 52
<211> 333
<212> ADN
<213> Homo sapiens

<400> 52
cagagcgtgc tgacacagcc tccatccgtg tctggcgccc ctggccagag agtgaccatc
60

agctgcacca gcagcagcag cgacatcgga gccggcctgg gcgtgcactg gtatcagcag
120

ctgcctggca ccgcccccaa gctgctgata gagggctact acaaccggcc cagcggcgtg
180

cccgaccggt ttagcggcag caagagcggc accagcgcca gcctgacaat caccggcctg
240

ctgcccagg acgagggcga ctactactgc cagagctggg acggcacctt gagcgccctg
300

ttcggcggag gcaccaagct gaccgtccta ggt
333

<210> 53
<211> 333
<212> ADN
<213> Homo sapiens

<400> 53
cagagcgtgc tgacacagcc tccatccgtg tctggcgccc ctggccagag agtgaccatc
60

agctgcacca gcagcagcag cgacatcgga gccgctctgg gcgtgcactg gtatcagcag
120

ctgcctggca ccgcccccaa gctgctgata gagggctact acaaccggcc cagcggcgtg
180

cccgaccggt ttagcggcag caagagcggc accagcgcca gcctgacaat caccggcctg
240

ctgcccagg acgagggcga ctactactgc cagagctggg acggcacctt gagcgccctg
300

ttcggcggag gcaccaagct gaccgtccta ggt
333

<210> 54
<211> 333
<212> ADN
<213> Homo sapiens

<400> 54
cagagcgtgc tgacacagcc tccatccgtg tctggcgccc ctggccagag agtgaccatc
60

agctgcacca gcagcagcag cgacatcgga gccggcagcg gcgtgcactg gtatcagcag
120

ctgcctggca ccgcccccaa gctgctgac gagggctact acaaccggcc cagcggcgtg
180

cccgaccggt ttagcggcag caagagcggc accagcgcca gcctgacaat caccggcctg
240

ctgcccagg acgagggcga ctactactgc cagagctggg acggcaccct gagcgccctg
300

ttcggcggag gcaccaagct gaccgtccta ggt
333

<210> 55
<211> 333
<212> ADN
<213> Homo sapiens

<400> 55
cagagcgtgc tgacacagcc tccatccgtg tctggcgccc ctggccagag agtgaccatc
60

agctgcacca gcagcagcag cgacatcgga gccggccagg gcgtgcactg gtatcagcag
120

ctgcctggca ccgcccccaa gctgctgac gagggctact acaaccggcc cagcggcgtg
180

cccgaccggt ttagcggcag caagagcggc accagcgcca gcctgacaat caccggcctg
240

ctgcccagg acgagggcga ctactactgc cagagctggg acggcaccct gagcgccctg
300

ttcggcggag gcaccaagct gaccgtccta ggt
333

<210> 56
<211> 333
<212> ADN
<213> Homo sapiens

<400> 56
cagagcgtgc tgacacagcc tccatccgtg tctggcgccc ctggccagag agtgaccatc
60

agctgcacca gcagcagcag cgacatcgga gccggcctgg gcgtgctgtg gtatcagcag
120

ctgcctggca ccgcccccaa gctgctgata gagggctact acaaccggcc cagcggcgtg
180

cccgaccggt ttagcggcag caagagcggc accagcgcca gcctgacaat caccggcctg
240

ctgcccaggg acgagggcga ctactactgc cagagctggg acggcacctt gagcgccctg
300

ttcggcggag gcaccaagct gaccgtccta ggt
333

<210> 57
<211> 333
<212> ADN
<213> Homo sapiens

<400> 57
cagagcgtgc tgacacagcc tccatccgtg tctggcgccc ctggccagag agtgaccatc
60

agctgcacca gcagcagcag cgacatcgga gccggcctgg gcgtgcactg gtatcagcag
120

ctgcctggca ccgcccccaa gctgctgata gagggctact acaaccggcc cagcggcgtg
180

cccgaccggt ttagcggcag caagagcggc accagcgcca gcctgacaat caccggcctg
240

ctgcccaggg acgagggcga ctactactgc cagagctttg acggcacctt gagcgccctg
300

ttcggcggag gcaccaagct gaccgtccta ggt
333

<210> 58
<211> 1344
<212> ADN
<213> Homo sapiens

<400> 58

caggtgcagc tgggtgcagtc cggcgccgag gtgaagaaac ccggcgccctc cgtgaaggtg
60

tcctgcaagg ccagcggcta caccttcacc tcctacgaca tcaactgggt gaggcaggcc
120

cccggccagg gcctggagtg gatgggctgg ctgaacccca actccggcta caccggctac
180

gccagaagt tccagggcag ggtgaccatg accgccgaca ggtccacctc caccgcctac
240

atggagctgt ccagcctgag gtccgaggac accgccgtgt actattgcgc cagggaggtg
300

cccagaccg ctgccttcga gtactggggc cagggcaccc tggtgaccgt gtccagcgcc
360

tccaccaagg gccccagcgt gttccccctg gccccagct ccaagtccac cagcggcgga
420

accgccgctc tgggctgcct ggtgaaggac tacttccccg agcccgtgac cgtgagctgg
480

aactccggcg ccctgacctc cggcgtgcac accttccccg ccgtgctgca gtccagcggc
540

ctgtactccc tgagctccgt ggtcacctg ccctcctcta gcctgggcac ccagacctac
600

atctgcaacg tgaaccacaa gccctccaac accaaggtgg aaaaaaggt ggagcccaag
660

tcctgcgaca agactcacac ctgtcctccc tgccccgcc cagagctgct cggcggaccc
720

tccgtgttcc tgttcccacc caagcccaag gacaccctga tgatctccag gacccccgag
780

gtgacctgcg tggtcgtgga cgtgtccac gaggaccctg aggtgaagtt caactggtac
840

gtggacggcg tggaggtgca caacgccaag accaagccca gggaggaaca gtacaactcc
900

acctaccggg tcgtgtccgt gctgaccgtc ctgcaccagg actggctgaa cggcaaggag
960

tacaagtgca aggtgtccaa caaggccctg cccgccccca tcgagaagac catctccaag
1020

gccaaagggcc agcctcggga gccccaggtg tacacactgc ccccttccag ggacgagctg
1080

accaagaacc aggtgtccct gacctgtctg gtgaagggct tctaccctc cgacatcgcc
1140

gtggagtggg agtccaacgg ccagcccagag aacaattaca agaccacacc tcccgtcctg
1200

gactccgacg gctccttctt tctgtactcc aagctgaccg tggacaagtc caggtggcag
1260

caaggcaacg tgttctcctg ctccgtgatg cacgaggccc tgcacaacca ctacaccag
1320

aagtcctga gcctgtcccc cggc
1344

<210> 59
<211> 648
<212> ADN
<213> Homo sapiens

<400> 59
cagagcgtgc tgacacagcc tccatccgtg tctggcgccc ctggccagag agtgaccatc
60

agctgcacca gcagcagcag cgacatcgga gccggcctgg gcgtgcactg gtatcagcag
120

ctgcctggca ccgcccccaa gctgctgata gagggctact acaaccggcc cagcggcgtg
180

cccgaccggt ttagcggcag caagagcggc accagcgcca gcctgacaat caccggcctg
240

ctgcccgagg acgagggcga ctactactgc cagagctggg acggcaccct gagcgccctg
300

ttcggcggag gcaccaagct gaccgtccta ggtcagccca aggccgctcc cagcgtgacc
360

ctgttcccc caagcagcga ggaactgcag gccacaagg ccaccctggt gtgcctgata
420

agcgacttct accctggggc cgtgaccgtg gcctggaagg ccgatagcag ccctgtgaag
480

gccggcgtgg aaaccaccac cccctccaag cagagcaaca acaatacgc cgccagcagc
540

tacctgtccc tgacccccga gcagtggaag tcccaccggt cctacagctg ccaggtgaca
600

cacgagggca gcaccgtgga aaagaccgtg gccccaccg agtgcagc
648

<210> 60
<211> 448
<212> PRT
<213> Homo sapiens

<400> 60

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 Thr Phe Thr Ser Tyr
20 25 30

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

Gly Trp Leu Asn Pro Asn Ser Gly Tyr Thr Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Arg Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Glu Val Pro Glu Thr Ala Ala Phe Glu Tyr Trp Gly Gln Gly
100 105 110

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

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
130 135 140

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

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

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

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
195 200 205

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

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
225 230 235 240

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

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
260 265 270

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
275 280 285

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

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

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
325 330 335

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

Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr
355 360 365

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

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

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

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

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

<210> 61
<211> 216
<212> PRT
<213> Homo sapiens

<400> 61

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

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

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

Leu Ile Glu Gly Tyr Tyr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Thr Gly Leu
65 70 75 80

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

Leu Ser Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
115 120 125

Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
130 135 140

Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
145 150 155 160

Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
165 170 175

Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
180 185 190

Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
195 200 205

Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 62
<211> 329
<212> PRT
<213> Homo sapiens

<400> 62

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 Ala Ala Gly Ala 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 Gly
325

<210> 63
<211> 330
<212> PRT
<213> Homo sapiens

<400> 63

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 Ala Ala Gly Ala 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 Gly Lys
325 330

<210> 64
<211> 329
<212> PRT
<213> Homo sapiens

<400> 64

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 Tyr Ile Thr Arg Glu 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 Asp Glu
225 230 235 240

Leu 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 Gly
325

<210> 65
<211> 330
<212> PRT
<213> Homo sapiens

<400> 65

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 Ala Gly Ala 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 Asp Glu
225 230 235 240

Leu 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 Gly Lys			
	325	330		
<210> 66				
<211> 329				
<212> PRT				
<213> Homo sapiens				
<400> 66				
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 Ala Gly Ala 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 Asp Glu
225 230 235 240

Leu 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 Gly
325

<210> 67
<211> 326
<212> PRT
<213> Homo sapiens

<400> 67

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 Asn Phe Gly Thr Gln Thr
65 70 75 80

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

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100 105 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115 120 125

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

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

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

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180 185 190

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

Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu

210					215					220					
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn
225					230					235					240
Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile
				245					250					255	
Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr
			260					265					270		
Thr	Pro	Pro	Met	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys
			275				280					285			
Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys
290					295					300					
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu
305					310					315					320
Ser	Leu	Ser	Pro	Gly	Lys										
				325											

<210> 68
 <211> 325
 <212> PRT
 <213> Homo sapiens

<400> 68

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 Asn Phe Gly Thr Gln Thr
65 70 75 80

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

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100 105 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115 120 125

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

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

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

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180 185 190

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

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

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

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

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

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

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

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

Ser Leu Ser Pro Gly
325

<210> 69
<211> 326
<212> PRT
<213> Homo sapiens

<400> 69

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 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Tyr Ile Thr Arg Glu 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
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 Gly				
		325		

<210> 70
 <211> 325
 <212> PRT

<213> Homo sapiens

<400> 70

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 Asn Phe Gly Thr Gln Thr
65 70 75 80

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

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100 105 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115 120 125

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

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

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

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180 185 190

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

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

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

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

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

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

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

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

Ser Leu Ser Pro Gly
325

<210> 71
<211> 326
<212> PRT
<213> Homo sapiens

<400> 71

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

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

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

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

Ser Leu Ser Pro Gly Lys
325